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| 1.   Solve the equation: https://my.pennfoster.com/exams/images/350401RR_Q52_stem.png  |  |  |  |  |  |  |  |  |  |
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|    **A.***t* = –3.9 |
|    **B.***t* = 3.8 |
|    **C.***t* = –3.8 |
|    **D.***t* = –1.1 |

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| 2.   Determine the slope and the *y*-intercept of the line 7*x* + 3*y* = –8.  |  |  |  |  |  |  |  |  |  |
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|  **A.**https://my.pennfoster.com/exams/images/350401RR_Q47_slope-minus7-y-minus8.png |
|    **B.**https://my.pennfoster.com/exams/images/350401RR_Q47_slope-3-y-8.png |
|    **C.**https://my.pennfoster.com/exams/images/350401RR_Q47_slope-minus7-y-minus8-3.png |
|    **D.**https://my.pennfoster.com/exams/images/350401RR_Q47_slope-7-y-minus8-3.png |



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| 3.   Write an equation of the given line in slope-intercept form.  |
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|    **A.***y* = –4*x* + 3 |
|    **B.***y* = 3*x* – 4 |
|    **C.***y* = –3*x* – 4 |
|    **D.***y* = –4*x* – 3 |

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| 4.   A line contains the point (–3, –4) and is perpendicular to a line with a slope of https://my.pennfoster.com/exams/images/350401RR_Q37_stem.png. Write an equation of the line satisfying the given conditions. Write the answer in slope-intercept form.  |
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|    **A.**https://my.pennfoster.com/exams/images/350401RR_Q37_minus5-3-x-9.png |
|    **B.**https://my.pennfoster.com/exams/images/350401RR_Q37_minus5-3-x-3.png |
|    **C.**https://my.pennfoster.com/exams/images/350401RR_Q37_5-3-x-9.png |
|    **D.**https://my.pennfoster.com/exams/images/350401RR_Q37_minus5-3-x-4.png |

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| 5.   Solve the inequality. Write the solution set in interval notation.11 ≤ 6(*n* + 4) – 4*n*  |
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|    **A.**[4,11] |
|    **B.**https://my.pennfoster.com/exams/images/350401RR_Q15_13-2-infinity.png |
|    **C.**https://my.pennfoster.com/exams/images/350401RR_Q15_minus13-2-infinity.png |
|    **D.**https://my.pennfoster.com/exams/images/350401RR_Q15_infinity-13-2.png |

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|  6.Solve the equation: 2(–3 – 3*x*) = 24  |
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|    **A.***x* = –5 |
|    **B.***x* = 5 |
|    **C.***x* = –7 |
|    **D.***x* = 6 |

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| 7.   Find the slope of the hill.  |
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|    **A.**295 |
|    **B.**https://my.pennfoster.com/exams/images/350401RR_Q42_17-295.png |
|    **C.**https://my.pennfoster.com/exams/images/350401RR_Q42_17-312.png |
|    **D.**https://my.pennfoster.com/exams/images/350401RR_Q42_295-17.png |

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| 8.   Find the slope of the line determined by the equation 2*x* = *y*.  |
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|    **A.***m* = 2 |
|    **B.***m* = –2 |
|    **C.***m* = –3 |
|    **D.***m* = 3 |

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| 9.   To ride certain amusement park rides, riders must be a least 44″ tall, but no more than 83″ tall. Let *h* represent the height of a prospective rider. Write an inequality that represents the allowable heights.  |  |  |  |  |  |  |  |  |  |
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|    **A.***h* ≤ 83 and *h* ≥ 44 |
|    **B.***h* ≤ 44 and *h* ≥ 83 |
|    **C.***h* ≤ 44 or *h* ≥ 83 |
|    **D.***h* ≤ 83 or *h* ≥ 44 |

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| 10.   Which one of the following equations represents the *y*-axis?  |
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|    **A.***x* = 0 |
|    **B.***y* = –1 |
|    **C.***y* = 0 |
|    **D.***x* = –1 |

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| 11.   Solve the absolute value equation.|12 + 2*x*| = |*x* – 6|  |
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|    **A.**{–18} |
|    **B.**{–18, –6} |
|    **C.**{–18, –2} |
|    **D.**{} |

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| 12.   Identify the inequality that matches the graph.  |
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|    **A.**|*x* – 1| > 3 |
|    **B.**|*x* + 1| > 6 |
|    **C.**|*x* + 1| > 3 |
|    **D.**|*x* – 1| > 6 |

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| 13.   Given *A* = {–3,–26,10,30,–14,9} and *B* = {–9,6,10,–14}, list the elements of *A*∩*B*.  |
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|    **A.**{10,–14} |
|    **B.**{–3,–26,10,30,–14,9,–9,6} |
|    **C.**{} |
|    **D.**{10} |

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14.   Graph the linear equation: 3*y* = –2*x* – 1

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| **A.**https://my.pennfoster.com/exams/images/350401RR_Q24_x-5y3.png |
|    **B.**https://my.pennfoster.com/exams/images/350401RR_Q24_x-1y5.png |
|    **C.**https://my.pennfoster.com/exams/images/350401RR_Q24_x-3y5.png |
|    **D.**https://my.pennfoster.com/exams/images/350401RR_Q24_x-5y-3.png |

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| 15.   Solve the inequality. Write the answer in interval notation.–2 < –2*y* + 19 < 10  |  |  |  |  |  |  |  |  |  |
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|    **A.**https://my.pennfoster.com/exams/images/350401RR_Q18_par212.png |
|    **B.**https://my.pennfoster.com/exams/images/350401RR_Q18_brack92.png |
|    **C.**https://my.pennfoster.com/exams/images/350401RR_Q18_brack212.png |
|    **D.**https://my.pennfoster.com/exams/images/350401RR_Q18_par92.png |

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| 16.   Solve the equation: https://my.pennfoster.com/exams/images/350401RR_Q5_stem.png  |  |  |  |  |  |  |  |  |  |
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|    **A.***x* = –10 |
|    **B.***x* = 12 |
|    **C.***x* = 8 |
|    **D.***x* = –12 |

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| 17.   Use substitution to determine which value is the solution to 5*x* + 3 = 18.  |  |  |  |  |  |  |  |  |  |
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|    **A.***x* = 1 |
|    **B.***x* = 9 |
|    **C.***x* = 3 |
|    **D.***x* = 2 |

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| 18.   Use substitution to determine which value is the solution to –9*x* – 8 = 19.  |
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|    **A.***x* = 4 |
|    **B.***x* = –5 |
|    **C.***x* = –3 |
|    **D.***x* = –4 |

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| 19.   A tool rental store charges a flat fee of $9.50 to rent a chain saw, and $3.75 for each day, including the first. Write an equation that expresses the cost *y* of renting this saw if it's rented for *x* days.  |
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|    **A.***y* = 3.75(*x* + 9.50) |
|    **B.***y* = 3.75*x* – 9.50 |
|    **C.***y* = 3.75*x* + 9.50 |
|    **D.***y* = 9.50*x* + 3.75 |

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| 20.   Given that (–2, *y*) and (4, 6) are points on a line whose slope is https://my.pennfoster.com/exams/images/350401RR_Q28_stem.png, find *y*.  |  |  |  |  |  |  |  |  |  |
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|    **A.***y* = 14 |
|    **B.***y* = 18 |
|    **C.***y* = 10 |
|    **D.***y* = 17 |

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