19. Price $140

fall by 30%:

$\frac{140}{} \times \frac{70}{100}$

$= \$98$

Q.

$45c^2 - 20k^2$

$5(9c^2 - 4k^2)$

$5(3c-2k)(3c+2k)$

20

$2400 \times \frac{125}{100}$

3000 per in June

$100 - 50 = 50$

$\frac{50}{100} \times 3000$

$= 1500$ in July

21 (a) $24u^2 + 15u$

$3u(8u+5)$

b. $m^2 + 12m + 36$

$36m^2, 12m$

$m^2 + 6m + 6m + 36$

$m(m+6) + 6(m+6)$

$(m+6)(m+6)$

(c) $32v^2 + 36vw - 44$

$4(8v^2 + 9vw - 11)$

$4\{v(8v+9w) - 11\}$

1 Slope

(0, -1) (2, 0)

$\frac{0+1}{2-0} = \frac{1}{2}$

slope $= \frac{1}{2}$.

y intercept $= -1$

2. Slope

(0, 0.9) (1, 1)

$\frac{1-0.9}{1-0} = \frac{0.1}{1}$

slope $= \frac{1}{10}$.

y intercept $= 0.9$.

3 $y = 6x + 4$

e (-6, -32)

4 ~~$Pr^2 + 2$~~

$(Pr)^2 - 2r + 5$

$(4x-2)^2 - 2(-2) + 5$

$(-8)^2 + 4 + 5$

$64 + 4 + 5$

$= 73$

5 (a) $(5b + 8) + (-9b + 6)$

$5b - 9b + 8 - 6$

$= 2 - 4b$

5b $(k^3)(k^7)$

$= k^{10}$

c. $(-10q)(2f)(4f)$

$-80f^2q$

d $(3x^2)^3$

$= 3^3(x^2)^3$

$= 27x^6$

6.

- Integer = 41
- Binomial = $x - 5$
- a function rule for quadratic.

Function = $x^2 + 2x + 5$

- two like terms.

~~and~~

$3x + 4x$ and $(3+4)x$

7 6.

8 (a) $-10 + (-13)$

$-10 - 13$

$= -26$

(b) $-3 - 35$

$= -38$

c $2(-4)(-11)$

88

d

$\frac{-10}{-2.5} = \frac{100}{25}$

e $\frac{-30}{0}$

$= 0$

f (8)(2.05)

8×2.05

16.4

g $\frac{-21.6}{3}$

-7.2

h $3\sqrt{81}$

$3\sqrt{81}$

3×9

$= 27$

i

$\sqrt[3]{-125}$

$(-125)^{1/3}$

$= -25$

9 $\frac{120}{144}$ devide by $\frac{12}{12}$

$\frac{10}{12}$ devide $\frac{2}{2}$

$\frac{5}{6}$.