Week 7 Quiz

Question 1

$$\frac{x^4}{4} + C.$$

Question 2.

$$\frac{x^5}{5} - 3x^3 + 4x + C$$

Question 3.

$$\frac{x^8}{8} + \frac{1}{2x^2} + 6x^{\frac{2}{3}} + C.$$

OR

$$\frac{x^8}{8} + \frac{1}{2}x^{-2} + 6\sqrt[3]{x^2} + C$$

Question 4.

$$5 - 9q^{\frac{1}{2}}\, dq$$

OR

$$5 - 9q^{\frac{1}{2}}\, dq$$

Question 5.

$$\frac{1}{54}(9x^6 + 11)^6 + C.$$

Question 6.

$$2\left(x^7 - \frac{6}{7}x^7 - 6x^5 + \frac{24}{5}x^5 + 3x^3\right) + C$$

Question 7.

$$\frac{16}{27}\left(x^9+9\right)^{\frac{3}{2}} + C$$

Question 8

$$\frac{1}{3}e^{3x} + C.$$

Question 9.

$$-\frac{1}{28}\ln\left|e^8 - 4x^7\right| + C.$$

Question 10

$$\frac{1}{5}\ln\left|5z+3\right| + C.$$