

I.

Write a polynomial equation of least degree with the zeros given.

$$\boxed{1} \quad x = 8, x = 3$$

$$\boxed{9} \quad x = \frac{5}{1}, x = 2, x = -2$$

$$\boxed{2} \quad x = -4, x = 6$$

$$\boxed{10} \quad x = \frac{1}{4}, x = -\frac{5}{4}$$

$$\boxed{3} \quad x = \frac{2}{3}, x = -2$$

$$\boxed{11} \quad x = 1, x = -2, x = 2$$

$$\boxed{4} \quad x = \frac{1}{2}, x = \frac{5}{6}$$

$$\boxed{12} \quad x = \frac{3}{4}, x = -\frac{1}{2}$$

$$\boxed{5} \quad x = 2, x = 4, x = -3$$

$$\boxed{13} \quad x = 5, x = -5$$

$$\boxed{6} \quad x = \frac{1}{3}, x = 7$$

$$\boxed{14} \quad x = 3, x = -8, x = \frac{1}{2}$$

$$\boxed{7} \quad x = \frac{1}{6}, x = -\frac{2}{3}, x = 5$$

$$\boxed{15} \quad x = 4, x = 3, x = -2$$

$$\boxed{8} \quad x = 1, x = -1$$

$$\boxed{16} \quad x = \frac{3}{1}, x = \frac{1}{3}$$

II. Divide the following using Synthetic Division:

$$\boxed{17} \quad (2x^3 + x - 5) \div (x+1)$$

$$\boxed{20} \quad \begin{array}{r} x^4 + 3x^2 - 5 \\ x+3 \end{array}$$

$$\boxed{18} \quad (x^5 - 2x^3 + x^2 - 3) \div (x-2)$$

$$\boxed{19} \quad (3x^4 + 2x^2 - x - 1) \div (x+3)$$

$$\boxed{21} \quad \begin{array}{r} 2x^2 + x - 5 \\ x-1 \end{array}$$