

HW 3.7

p. 159 2 – 10 even



$$2. \quad (-5x^3 + 15x^2 - 30x) \div (-5x)$$

$$\underline{-5x^3 + 15x^2 - 30x}$$

$$-5x$$

$$\frac{-5x^3}{-5x} + \frac{15x^2}{-5x} - \frac{30x}{-5x}$$

$$x^2 - 3x + 6$$



$$4. (x^2 + 6x + 5) \div (x + 5)$$

$$\underline{x^2 + 6x + 5}$$

$$x + 5$$

$$x + 1$$

$$x + 5 \overline{) x^2 + 6x + 5}$$
$$\underline{x^2 + 5x}$$

$$x + 5$$

$$\underline{x + 5}$$

$$0$$



$$6. (4x^2 + x - 5) \div (x - 1)$$

$$\underline{4x^2 + x - 5}$$

$$x - 1$$

$$4x + 5$$

$$x-1 \overline{) 4x^2 + x - 5}$$

$$\underline{-(4x^2 - 4x)}$$

$$5x - 5$$

$$\underline{-(5x - 5)}$$

$$0$$



8. $(4x^2 + x - 8) \div (x - 2)$

$$\underline{4x^2 + x - 8}$$

$$x - 2$$

$$\begin{array}{r} + 9 \\ x-2 \overline{) 4x^2 + x - 8} \\ \underline{-(4x^2 - 8x)} \end{array}$$

$$\begin{array}{r} + 9 \\ + 9x - 8 \\ \underline{-(9x - 18)} \end{array}$$

$$10$$

$$4x + 9 + \frac{10}{x - 2}$$



