

Gallery Walk problems 11/15/12

Use Synthetic Division

$$\textcircled{1} \frac{2x^4 + x^3 - x - 2}{x + 1}$$

$$\textcircled{2} \frac{3x^6 - 2x^5 - x^4 - x^2 - 2x + 3}{x - 1}$$

$$\textcircled{3} \frac{2x^4 - 7x^3 + 7x + 6}{x - 3}$$

$$\textcircled{4} \frac{y^4 - 4y^2 + y + 4}{y + 2}$$

Use polynomial long division (regular division)

$$\textcircled{5} \frac{x^2 + 2x - 6}{x - 2}$$

$$\textcircled{6} \frac{-z^2 + 9z}{z - 3}$$

$$\textcircled{7} \frac{8x^3 - 10x^2 - x - 4}{2x + 1}$$

$$\textcircled{8} \frac{4x^5 + 4x^2 - 2x - 2}{2x^2 + 1}$$

$$\textcircled{9} \frac{r^2 - 4r + 3}{r + 2}$$