

Name _____

Homework 16
Section 3.3

1. (6) Divide $P(x) = 6x^4 - 2x^3 + 29x^2 - 6x + 20$ by $d(x) = 2x^2 + 7$. Write P in the form $P(x) = d(x)q(x) + r(x)$.

2. (7) Find all of the intercepts and asymptotes of the graph of $f(x) = \frac{3x + 1}{x + 2}$. Be sure to label what type of intercept and asymptote each is.

3. (7) Find all of the intercepts and asymptotes of the graph of $g(x) = \frac{4(x+1)(x-3)}{x^2+3x+2}$.
Be sure to label what type of intercept and asymptote each is.