**Rational Functions Practice**

Find the zeros, y-intercepts, and discontinuities (horizontal and vertical asymptote(s) and holes) for the following rational functions. Sketch a graph using the information.

1. $y = \frac{x - 5}{2x + 3}$
2. $y = \frac{3}{x - 8}$
3. $y = \frac{(x – 2)(x + 3)}{3}$
4. $y = \frac{(x – 5)(x + 2)}{(x + 3) (x + 2)}$
5. $y = \frac{x^{2} + x - 12}{x + 4}$
6. $y = \frac{x^{2} - 16}{x^{2} - 7x + 12}$
7. $y = \frac{2x - 1}{6x^{2}+ 5x – 4 }$