Practice: Find the x and y intercepts of each rational function:

1) $f(x) = \frac{x^2 - 9}{x^2 + 2}$

2) $f(x) = \frac{x - 4}{x + 5}$

3) $f(x) = \frac{x^2 - 3x - 10}{x^2 - 8}$

4) $f(x) = \frac{x^2 - 5x + 4}{x^2 - 4x - 1}$

5) $f(x) = \frac{x^2 + 4}{x^2 - 2}$

Answers: 1)x-int. $(3, 0)$ and $(-3, 0)$ y-int. $(0, \frac{-9}{2})$ 2) x-int. (4, 0) y-int. $(0, \frac{-4}{5})$ 3) x-int. (-2, 0) and (5, 0) y-int $(0, \frac{5}{4})$ 4) x-int. (1, 0) and (4, 0) y-int (0, -4) 5) x-int: none y-int: (0, -2)