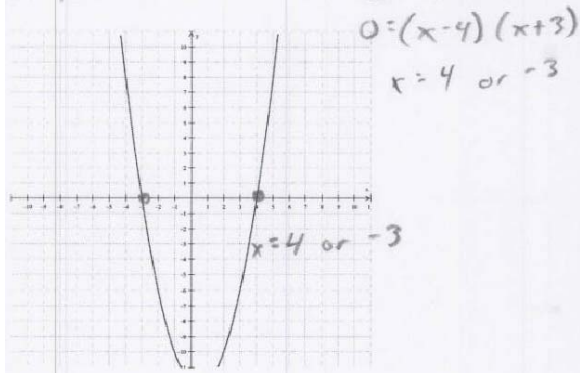


11.2 PRACTICE SOLUTIONS

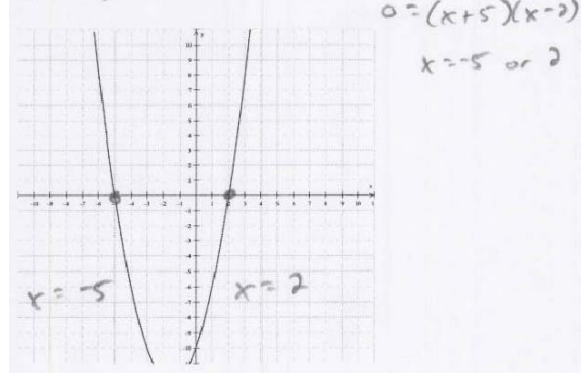
USE CALCULATOR!

Find the zeros of the function

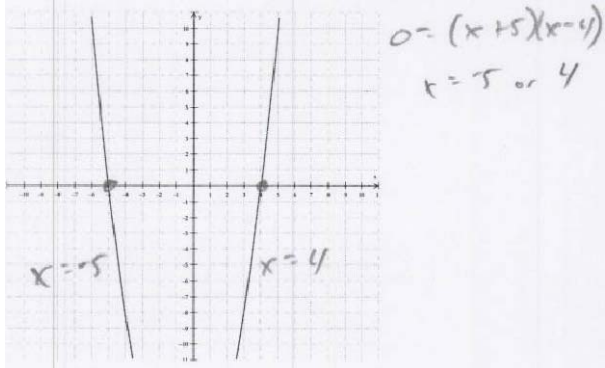
1. $f(x) = x^2 - x - 12$



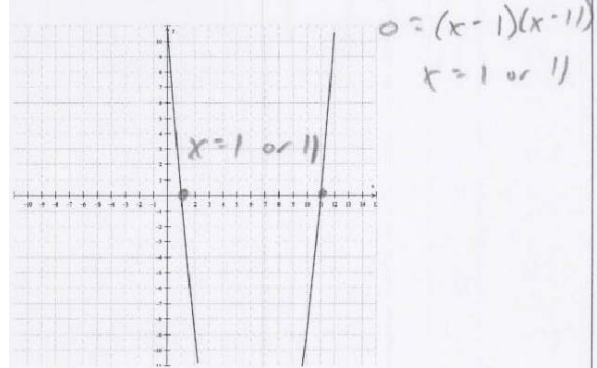
2. $f(x) = x^2 + 3x - 10$



3. $f(x) = x^2 + x - 20$

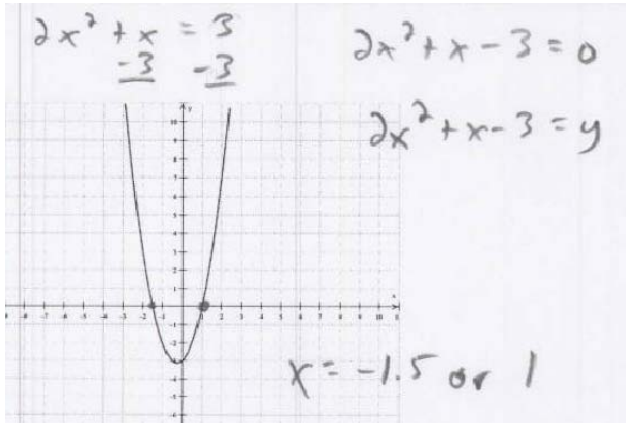


4. $f(x) = x^2 - 12x + 11$

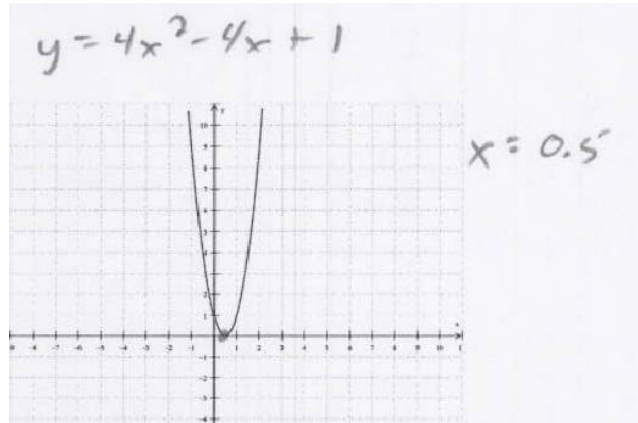


Solve the equation by graphing

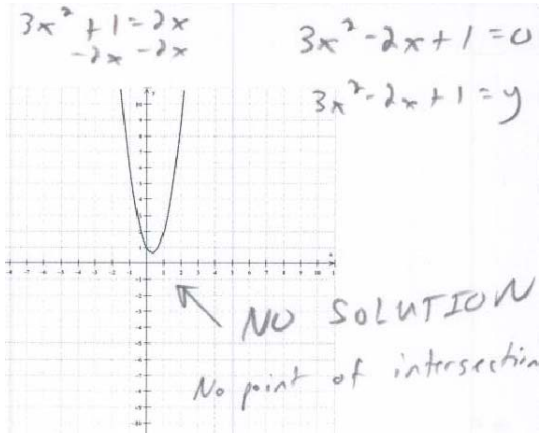
5. $2x^2 + x = 3$



6. $4x^2 - 4x + 1 = 0$



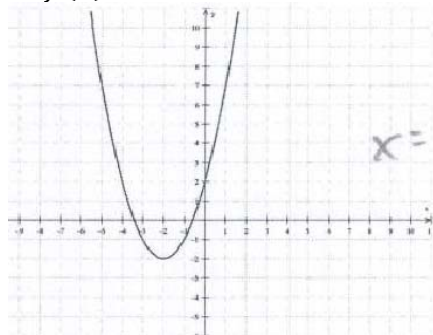
7. $3x^2 + 1 = 2x$



USE CALCULATOR!

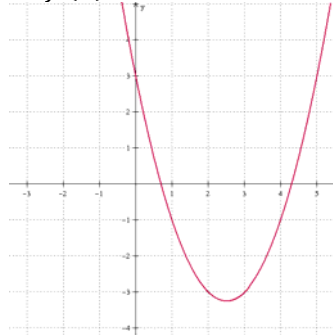
Sketch a ROUGH graph and find the zeros of the function to the nearest tenth

8. $f(x) = x^2 + 4x + 2$



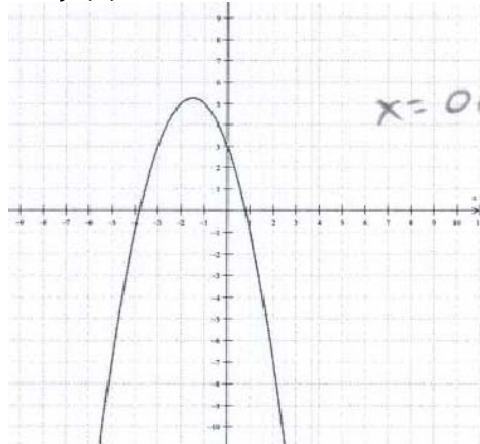
$x = -3.4$ or -0.6

9. $f(x) = x^2 - 5x + 3$



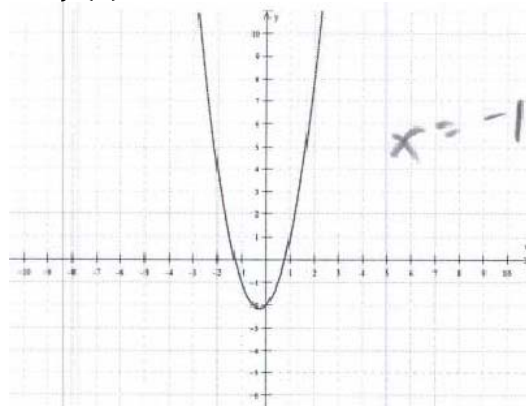
$x = 0.697$ or 4.3

10. $f(x) = -x^2 + 7x - 5$



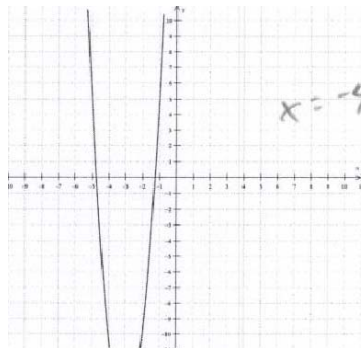
$x = 0.8$ or 6.2

11. $f(x) = 2x^2 + x - 2$



$x = -1.3$ or 0.8

12. $f(x) = 5x^2 + 30x + 30$



$x = -4.7$ or -1.3

CHALLENGE

SOLVE

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

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

$$x = -2.94, -0.665, 1.37, \text{ or } 2.24$$