Simplify.

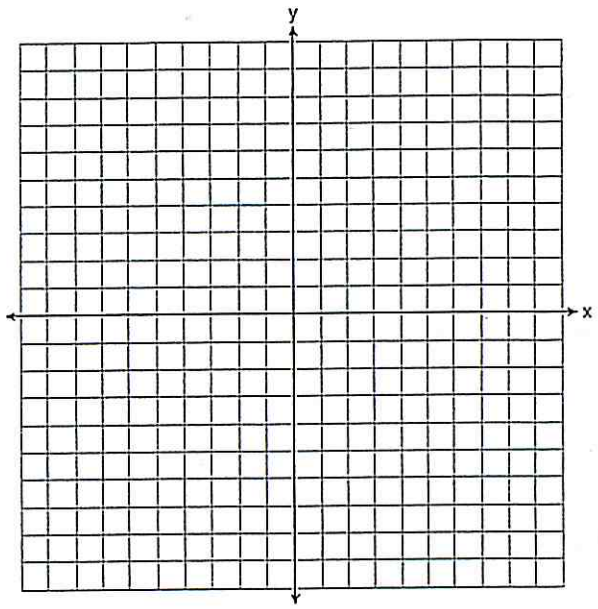
4) $(2-5i)(3+4i)$

5) $(2-5i)+(3+4i)$

6) $(2-5i)-(3+4i)$

7) Graph the given function and answer the following questions.

$g(x) = x^2 - 2x - 15$



a) Find equation of axis of symmetry.

b) Find the vertex.

c) Is it a max or min point?

d) Find the y intercept

e) Find the x intercepts

Solve by factoring, completing the square, taking the square root, the Quadratic Formula, or graphing

8) $6x^2 + 5x = 4$

9) $x^2 - 6x - 3 = 0$

10) $4x^2 + 72 = 0$

11) $2x = -x^2$

12) Rewrite in vertex form by completing the square. Then describe transformations.

$y = 3x^2 + 6x$