Advanced Algebra

I can solve various equations

Unit 2: Families of Functions Assignment #2

2)
$$8x^2-6x+4=2x^2+35$$

$$4)|2x - 5| = 22$$

5)
$$4\sqrt{3x-6} = 16$$

6)
$$12x^{\frac{1}{3}} = 144$$

7)
$$12\sqrt[4]{x-18} = 18$$

9)
$$12x^4-16 = 28$$

10)
$$3(x-4)^3-18 = 292$$

An important use of your equation skills is to be able to easily find the x intercept. We know that this occurs when y=0. Solve the following equations and thus state the x intercept.

Sketch a graph of the function. You graph should include the general shape and the proper x intercepts

11)
$$(x-5)^2 - 16 = 0$$

12)
$$4|x - 16| = 0$$

13)
$$3(x-4)^3-18=0$$

15)
$$12x^{\frac{1}{3}} = 0$$