

Wednesday, October 11, 2017

- I can sketch the transformations of arbitrary functions.
 - I can describe the transformations of arbitrary functions.
-

Solve each equation for the given variable.

$$1) \quad 37 = -3 + 5(x + 6)$$

$$2) \quad -11 - 5a = 6(5a + 4)$$

$$3) \quad \sqrt[3]{4 \bullet 2} + 2x = (6 - 2)^2 + \sqrt{36}$$

SLOT QUIZ TOMORROW (Friday you go to hours 1-3)

$$1) 37 = -3 + 5(x + 6)$$

$$37 = -\underline{3} + 5x + \underline{30}$$

$$\begin{array}{r} 37 = 5x + 27 \\ -27 \quad \quad -27 \\ \hline \end{array}$$

$$\underline{10 = 5x}$$

$$\begin{array}{c} 5 \\ \circlearrowleft \\ x = 2 \end{array}$$

$$2) \quad -11 - 5a = 6(5a + 4)$$

$$\begin{array}{r} -11 - 5a = 30a + 24 \\ \quad +5a \quad +5a \\ \hline \end{array}$$

$$\begin{array}{r} -11 = 35a + 24 \\ -24 \quad \quad -24 \\ \hline \end{array}$$

$$\begin{array}{r} -35 = 35a \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ -1 = a \end{array}$$

$$3) \sqrt[3]{4 \bullet 2} + 2x = (6 - 2)^2 + \sqrt{36}$$

$$\sqrt[3]{8} + 2x = (4)^2 + 6$$

$$2 + 2x = 16 + 6$$

$$2 + 2x = 22$$

$$\begin{array}{r} 2 + 2x = 22 \\ - 2 \quad - 2 \\ \hline \end{array}$$

$$2x = 20$$

$$\begin{array}{r} 2x = 20 \\ 2 \\ \hline \end{array}$$

$$x = 10$$