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

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

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

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

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

$37 = -3 + 5x + 30$

$37 = 5x + 27$

$-27 \quad -27$

$10 = 5x$

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

$x = 2$

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

$-11-5a=30a+24$

$+5a \quad +5a$

$-11=35a+24$

$-24 \quad -24$

$-35=35a$

35

$-1=a$

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

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

$2 + 2x = 16 + 6$

$2 + 2x = 22$

$-2 \quad -2$

$2x = 20$

$\frac{2x}{2} = \frac{20}{2}$

$x = 10$