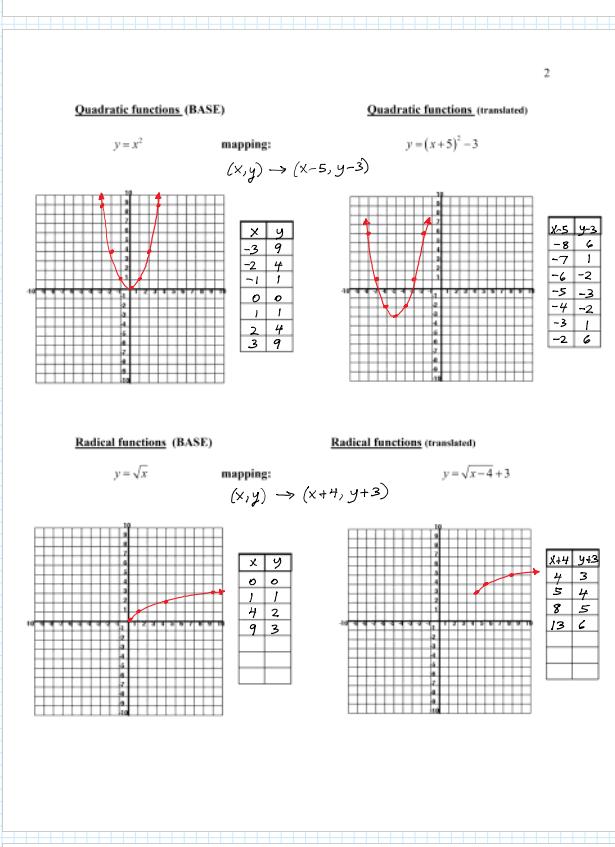
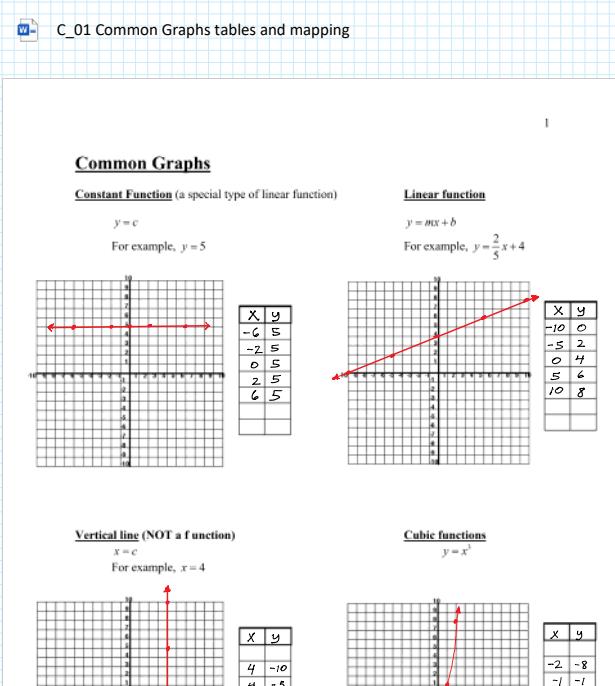
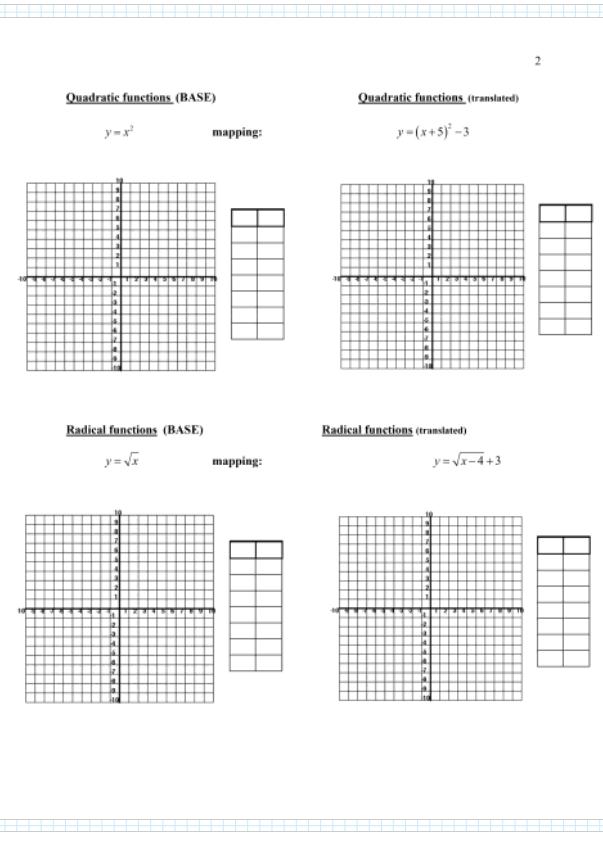
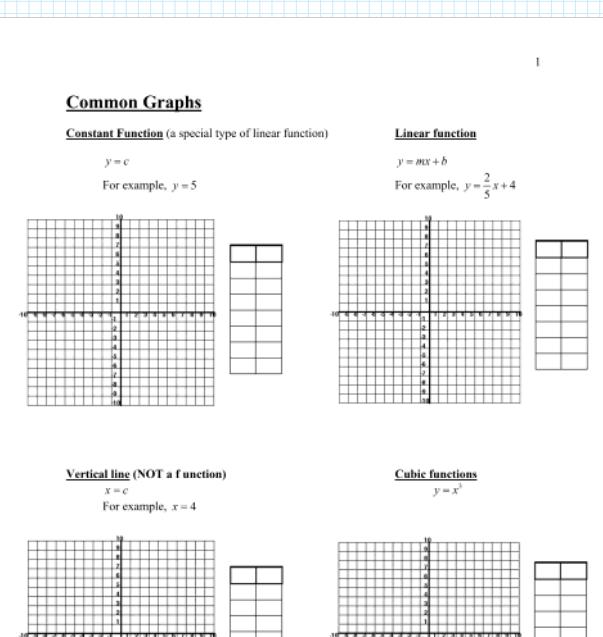


C_01 Common Graphs tables and mapping

Wednesday, January 12, 2022 2:12 PM

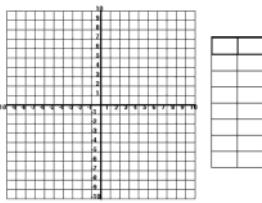
C_01 Common Graphs tables and mapping



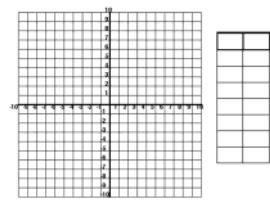
Exponential functions (BASE)

$y = 2^x$

mapping:

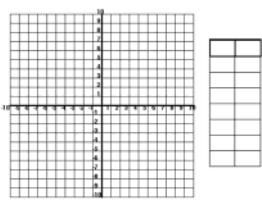
**Exponential functions (translated)**

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

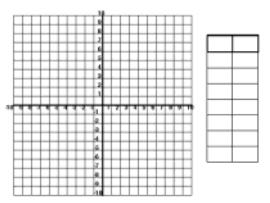
**Absolute value functions (BASE)**

$y = |x|$

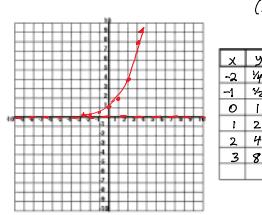
mapping:

**Absolute value functions (translated)**

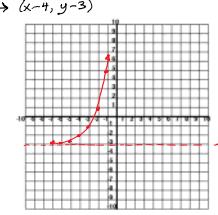
$y = |x - 5| + 3$

**Exponential functions (BASE)**

$y = 2^x$

mapping: $(x, y) \rightarrow (x-4, y-3)$ **Exponential functions (translated)**

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



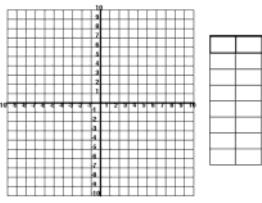
$$\begin{aligned} & x-4 & y-3 \\ & -6 & -2\frac{3}{4} \\ & -5 & -2\frac{1}{2} \\ & -4 & -2 \\ & -3 & -1 \\ & -2 & 1 \\ & -1 & 5 \end{aligned}$$

$\frac{1}{2} - 3$
 $= \frac{1}{2} - \frac{12}{4}$
 $= \frac{1}{2} - 3\frac{1}{4}$
 $= -2\frac{3}{4}$

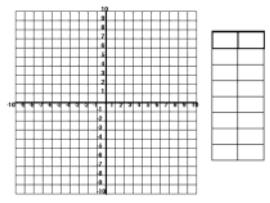
Rational functions (BASE)

$y = \frac{1}{x}$

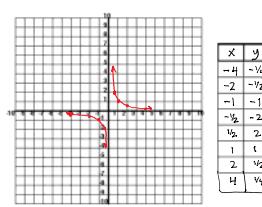
mapping:

**Rational functions (translated)**

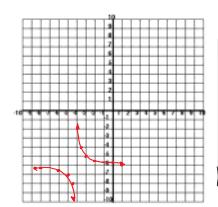
$y = \frac{1}{x+4} - 6$

**Rational functions (BASE)**

$y = \frac{1}{x}$

mapping: $(x, y) \rightarrow (x-4, y-6)$ **Rational functions (translated)**

$y = \frac{1}{x+4} - 6$

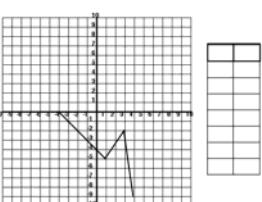


$$\begin{aligned} & x+4 & y-6 \\ & -8 & -5\frac{1}{4} \\ & -6 & -4\frac{1}{2} \\ & -5 & -3 \\ & -4 & -2 \\ & -3 & -1 \\ & -2 & \frac{1}{2} \\ & -1 & 2 \\ & 0 & 6 \end{aligned}$$

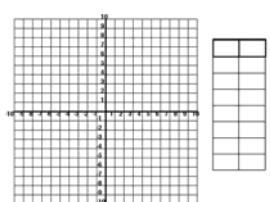
Random Function (BASE)

$y = f(x)$

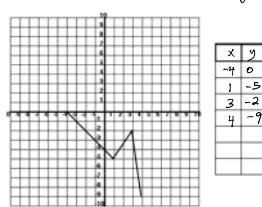
mapping:

**Random Function (translated)**

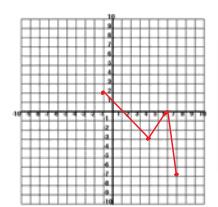
$y = f(x-3)+2$

**Random Function (BASE)**

$y = f(x)$

mapping: $(x, y) \rightarrow (x+3, y+2)$ **Random Function (translated)**

$y = f(x-3)+2$



$$\begin{aligned} & x+3 & y+2 \\ & -1 & 2 \\ & 4 & -3 \\ & 6 & 0 \\ & 7 & -7 \end{aligned}$$