

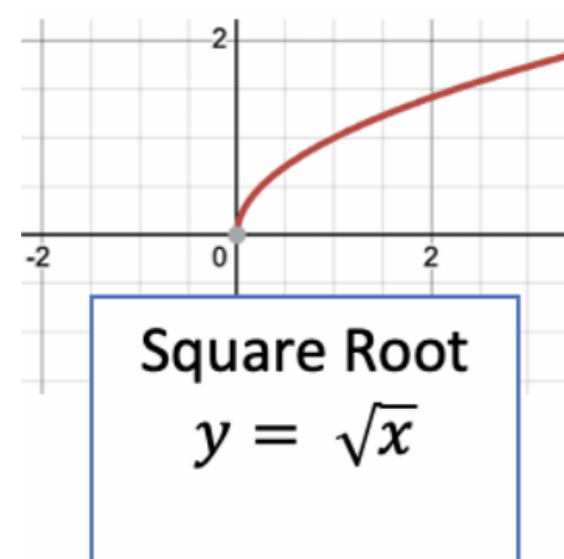
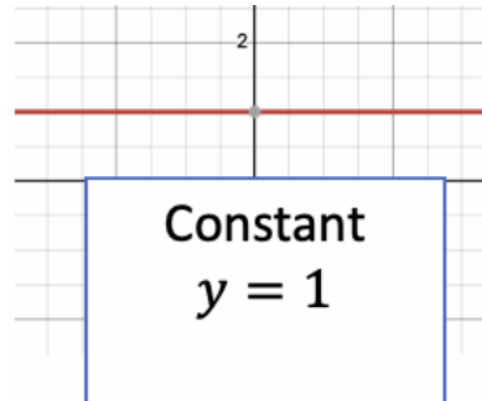
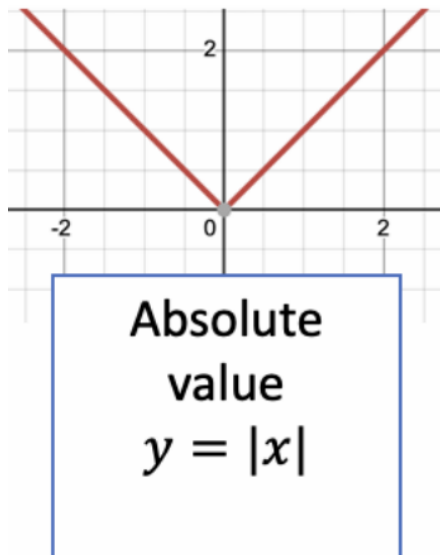
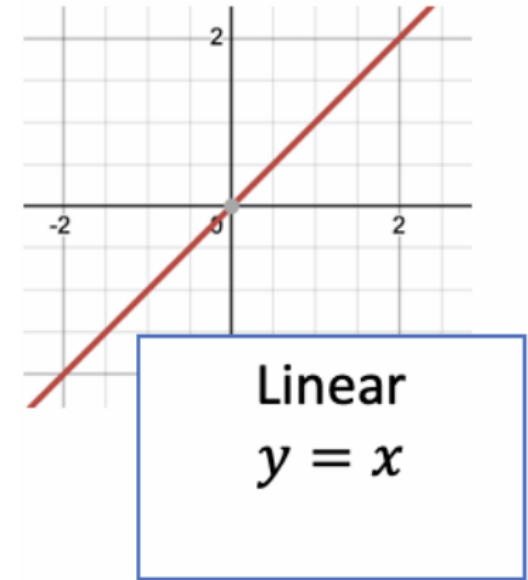
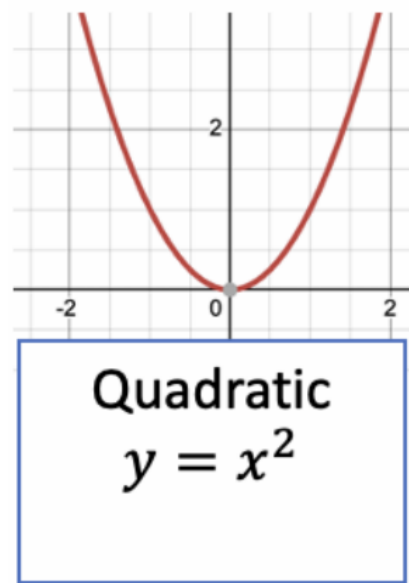
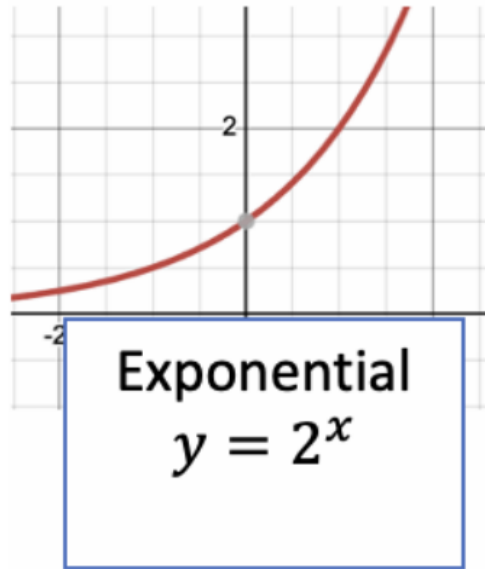
Transformation Rules For Functions

FUNCTION NOTATION	TYPE OF TRANSFORMATION	CHANGE TO COORDINATE POINT
$F(X) + D$	VERTICAL TRANSLATION UP D UNITS	$(X, Y) \rightarrow (X, Y+D)$
$F(X) - D$	VERTICAL TRANSLATION DOWN D UNITS	$(X, Y) \rightarrow (X, Y-D)$
$F(X+C)$	HORIZONTAL TRANSLATION LEFT C UNITS	$(X, Y) \rightarrow (X-C, Y)$
$F(X-C)$	HORIZONTAL TRANSLATION RIGHT C UNITS	$(X, Y) \rightarrow (X+C, Y)$
$-F(X)$	REFLECTION OVER X AXIS	$(X, Y) \rightarrow (X, -Y)$
$F(-X)$	REFLECTION OVER Y-AXIS	$(X, Y) \rightarrow (-X, Y)$
$AF(X)$	VERTICAL STRETCH FOR $ A > 1$ VERTICAL COMPRESSION FOR $0 < A < 1$	$(X, Y) \rightarrow (X, AY)$
$F(BX)$	HORIZONTAL COMPRESSION FOR $ B > 1$ HORIZONTAL STRETCH FOR $0 < B < 1$	$(X, Y) \rightarrow (X/B, Y)$

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Parent Functions



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