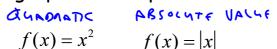
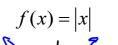
1.6 Transformations of Parent Functions

Feb 9

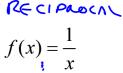
Recall the graphs of the parent functions



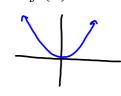


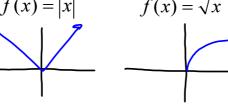












Transformations of all functions are the same as transformations of quadratics

$$y = a(x-b)^{2} + c$$

$$x - 3$$

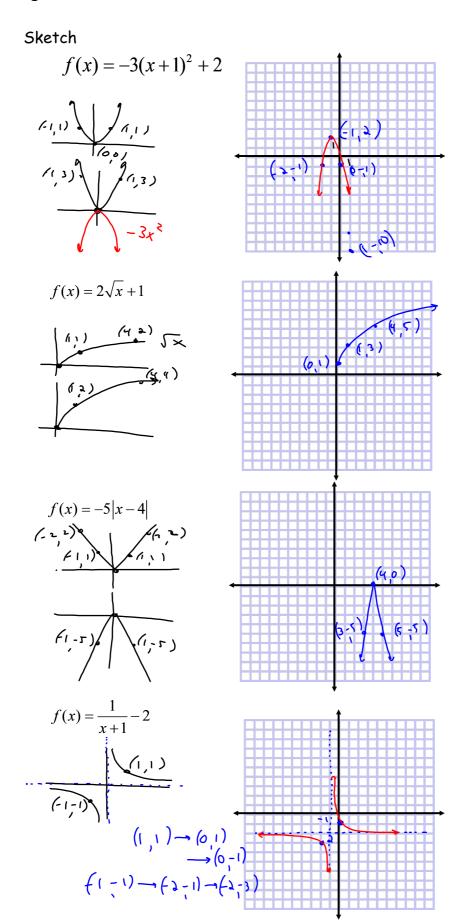
a- VENTICAL STRETCH a < 0, REFLECT IN X-AXIS

b- HORROWTAL TRANSLATION (SHIFT) 6>0 -> RISAZ

C- VENTICAL INPUSCATION

In general,
$$y = af(x-b) + c$$

where f(x) represents the parent function



Homework p.51#1-4