Precalc notes

- 1. (a) x
 - (b) -4
 - (c) $\frac{3}{2}$
 - (d) $\sqrt{5}$
- 2. (a) ab = ba; associative property
 - (b) a + (b + c) = (a + b) + c; commutative property
 - (c) a(b+c) = ab + ac; Distributive property
- 3. (a) $A = \{x \mid x \in \mathbb{R} \mid 2 < x < 7\}$
 - (b) (2,7)
- 4. (a) The symbol x stands for the absolute value of the number x. If x is not 0, then she sign of |x| is always positive
- 5. The distance between a and b on the real line is d(a,b)=|a-b|. So the distance between -5 and 2 is 7.
- 6. (a) yes
 - (b) yes
- 7. (a) ...
 - (b) ...