

Alg 4.2b

Proving Equation Rules

- Enter the following equations (one at a time) into $y =$ in your graphing calculator.
- Solve and record the y values
- Trace to prove the coordinate points. Write T for true in the blank after.

1) $y = 2x + 3$

(2,___) ____, (-2,___) ____, (5,___) ____, (-5,___) ____, (0,___) ____, (-1.5,___) ____,

2) $y = -2x - 4$

(2,___) ____, (-2,___) ____, (5,___) ____, (-5,___) ____, (0,___) ____, (-1.5,___) ____,

3) $2x + y = 12$

(2,___) ____, (-2,___) ____, (3,___) ____, (-3,___) ____, (0,___) ____, (-1.5,___) ____,

4) $y = x^3$

(2,___) ____, (-2,___) ____, (5,___) ____, (-5,___) ____, (0,___) ____, (-1.5,___) ____,

5) $y = -x^2 + 3$

(2,___) ____, (-2,___) ____, (5,___) ____, (-5,___) ____, (0,___) ____, (-1.5,___) ____,

6) $x + 3y = 14$

(2,___) ____, (-2,___) ____, (5,___) ____, (-5,___) ____, (0,___) ____, (-7,___) ____,

What did you learn?