

2.4 I can Multiply Radicals

Starter: $-2\sqrt{2} + 2\sqrt{18}$ $+ 4\sqrt{2}$

$$\boxed{4\sqrt{2}}$$

$$\begin{array}{c} \sqrt{9} \cdot \sqrt{2} \\ \sqrt{3} \cdot \sqrt{2} \end{array}$$

$$(n^{4/3})^{-1/2}$$

$$n^{-2/3}$$

BW

$$\frac{4}{3} \cdot -\frac{1}{2} = -\frac{4}{6}$$

$$\boxed{-\frac{2}{3}}$$

$$\frac{1}{n^{2/3}}$$

October Calendar math

determine if the following is linear, quadratic, or exponential

1.

x	f(x)
5	1
6	7
7	13
8	19

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5	1
6	7
7	13
8	19

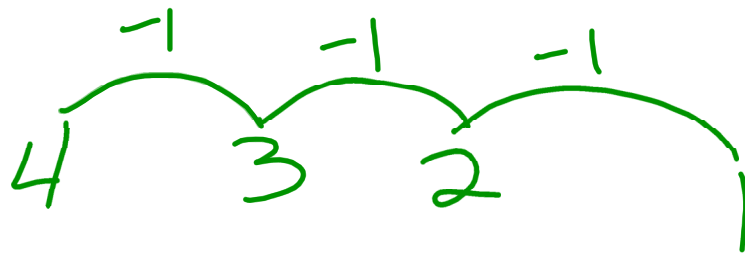
Linear

2.

x	f(x)
2	8
3	18
4	32
5	50

x	f(x)
2	8
3	18
4	32
5	50

Quadratic



$$n=1 \quad n=2 \quad n=3 \quad n=4$$

Multiplying Radicals (like multiplying polynomials)

$$3x \cdot 4x$$
$$12x^2$$

$$2x(4x - 3)$$
$$8x^2 - 6x$$

$$\underline{3}x \cdot \underline{4}y$$

$$12xy$$

1. $\sqrt{15} \cdot \sqrt{5}$

$$\sqrt{75}$$

$$\boxed{5\sqrt{3}}$$

3. $-4\sqrt{3}(\sqrt{6} + \sqrt{2})$

$$-4\sqrt{18} + -4\sqrt{6}$$

$$\boxed{-12\sqrt{2} - 4\sqrt{6}}$$

$$7. (\sqrt{3} + \sqrt{5})^2$$

$$\textcircled{1} (\sqrt{3} + \sqrt{5})(\sqrt{3} + \sqrt{5})$$

$$\textcircled{2} \sqrt{9} + \sqrt{15} + \sqrt{15} + \sqrt{25}$$

$$3 + 2\sqrt{15} + 5$$

$$\boxed{8 + 2\sqrt{15}}$$

$$12. (-4\sqrt{5} + 5)(\sqrt{5} - 4)$$

$$-4\sqrt{5} \cdot \sqrt{5} + 16\sqrt{5} + 5\sqrt{5} - 20$$

$$-20 + 21\sqrt{5} - 20$$

$$\boxed{-40 + 21\sqrt{5}}$$