Name: JOLUMN

11.2 Homework: Varied literals and radicals Do not use a calculator or convert values to decimals

1. What scanning app did you use to convert a photo of your work to a pdf?

. /		
X	Adobe	Scan

☐ Evernote Scannable

☐ Genius Scan

□ Other/none .

Simplify each expression

2. (a)
$$2x\sqrt{3} + 2x - 3x\sqrt{3}$$

$$= 2x - x\sqrt{3}$$

(b)
$$3\theta - 2\alpha + 2\alpha - \theta$$

(c)
$$2x\sqrt{9} + \sqrt{18} \times \sqrt{2}$$

(d)
$$\pi + 4\pi\sqrt{7} - 4\pi\sqrt{7} + 1$$

(e)
$$3\sin\theta + \cos\gamma - \sin\theta$$

(f)
$$(-\sqrt{5})^2 - (\sqrt{5x})^2 - 3x + 1$$

Solve for y or b, respectively

3. (a)
$$\frac{1}{4}x + \frac{3}{2}y = \frac{9}{2}$$

$$y = \frac{2}{3}(-4x + \frac{9}{2})$$

4. (a)
$$\tan \theta = \frac{a}{b}$$

(b)
$$kx + my = n$$

$$y = -\frac{k}{m} x + \frac{n}{m}$$

(b)
$$a^2 + b^2 = c^2$$

(b)
$$a^2 + b^2 = c^2$$

$$b = \frac{1}{2} \sqrt{a^2 c^2 - a^2}$$