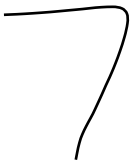
BECA / Dr. Huson / Geometry 10th Grade
Unit 11: Algebra II introduction Name:
29 April 2020

11.3 Homework: Simplify radicals
Do not use a calculator or convert values to decimals

Simplify each expression

1. (a) $\sqrt{45}$

(c) $\sqrt{75} + 2\sqrt{3}$



(b) $\sqrt{\theta^2} - 2\beta + 7\theta,\ \theta > 0$

(d) $2x\sqrt{7} + \sqrt{7x^2},\ x > 0$

Solve for the unknown of interest

2. Solve for y

(a) $x \sin\theta + y \cos\theta = 1$

(b) $\dfrac{1}{k}x + \dfrac{1}{m}y = \dfrac{1}{n}$

3. Solve for θ

(a) $\theta \sin x + \theta \cos x = 1$

(b) $\theta^2 + \alpha^2 = \beta^2$