Bellwork Alg 2B Wednesday, May 30, 2018

1. Find the complete solution to this equation. Give EXACT answer when possible, otherwise, round to the the nearest hundredth. Give answer in radians.

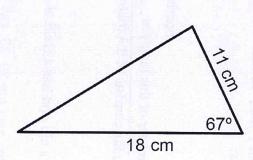
 $20\sin^3 2x + 8\sin^2 2x - 15\sin 2x - 6 = 0$

2. Find all solutions for x, $0^{\circ} \le x \le 360^{\circ}$. Give EXACT answer when possible, otherwise, round to the the nearest hundredth.

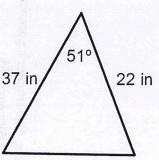
 $20\cos^2 5x + 8\cos 5x = 0$

3. Find the area of each triangle to the nearest hundredth.

a)



b)



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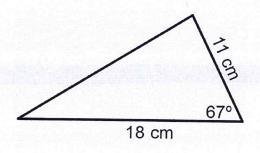
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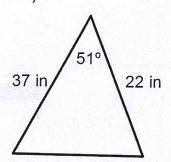
 $20\cos^2 5x + 8\cos 5x = 0$

3. Find the area of each triangle to the nearest hundredth.

a)



b)



ALG 2B Bellwork WED 5-30-18 / Answers

(1) 20 sin32x + 8sin22x -15 sin2x -6=0

$$20x^{3} + 8x^{2} - 15x - 6$$

$$5x + 2$$

$$4x^{2} = 20x^{3} + 8x^{2}$$

$$-5 - 15x - 6$$
(53)

period of

(055x => 360 5

= 72

5 Sin 2x +2 =0

$$\frac{2X}{2} = \frac{11}{3}, \frac{21}{3}, \frac{411}{3}, \frac{511}{3}$$

(2) 20cos² 5x + 8cos 5x=0 4cos5x (5cos5x +2) =0

$$\frac{5x}{5} = \frac{90^{\circ} 270^{\circ}}{5}$$

$$X = 18^{\circ} £ 54^{\circ}$$

$$90^{\circ} 126^{\circ}$$

$$162^{\circ} 198^{\circ}$$

$$234^{\circ} 270^{\circ}$$

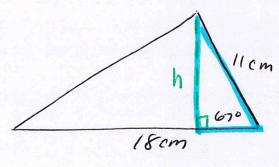
$$306^{\circ} 342^{\circ}$$

$$(055x = -2/5)$$

$$X = 22.72^{\circ} 2 49.28^{\circ}$$

 $94.72^{\circ} /21.28^{\circ}$
 $166.72^{\circ} /93.28^{\circ}$
 $238.72^{\circ} 265.28^{\circ}$
 $310.72^{\circ} 337.28^{\circ}$

3 4)

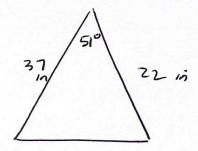


h 11
$$67^{\circ} = \frac{h}{11}$$
 $h = 10.13 \text{ cm}$

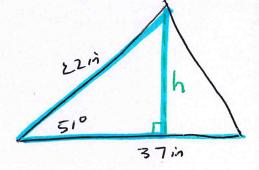
$$A = \frac{1}{2}bh = \frac{1}{2}(16)(10.13)$$

$$A = 91.17 em^{2}$$

b)



PLOTATE D



$$A = \frac{1}{2}bh = \frac{1}{2}(37)(17.10)$$

$$\frac{12}{51^{\circ}}$$
 $\frac{51^{\circ}}{51051^{\circ}} = \frac{h}{22}$
 $h = 17.10in$