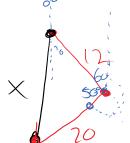
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Section 5.5 and 5.6 Practice

Name: _____

Get your bearings!

Mr. Vonnahme sails his tugboat from Precalculus Pier at a bearing of 120 degrees at a breathtaking speed of 4 miles per hour. After 3 hours disailing, he decides on a whim, to change his bearing to 250 degrees, and throttles his tugboat up to a whopping 5 miles per hour. 4 hours later, he has gotten bored, and decides to head home to do some math problems. How far is Mr. V. from Precalculus Pier?

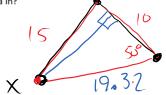


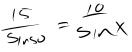
 $\chi^2 = 12^7 + 20^2 - 2(12)(20) (cs 50^\circ)$ 544 - 480 co 550 $\chi \approx 15.3 \text{ miles}$

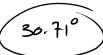
Fun at the Vonnahme Household

Kate Vonnahme is making triangles in the backyard. She walks 15 steps, then turns and walks another 10 steps. Before walking back to her starting point, she turns 50 degrees and exclaims, "I love math!". What is the area of Kate's triangle? What units is this area in?









149.29

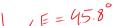
If Kate's steps measure approximately 16 inches, what is the area of her triangle in square feet?

A=115.66 ft]

#1-#6 Use the given information and either the Law of Sines or Law of Cosines to find the requested information.

1. $\triangle ERW, \angle R = 35^{\circ}, e = 5, r = 4$





$$\omega = 6.88$$

5A5

(DSINES

$$\Delta 2$$
 $\Delta E = 134.2^{\circ}$ $\omega = 1.307$

$$w = 1.30 t$$

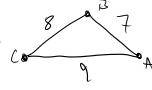
- 2. $\triangle ABC, a = 8, b = 5, \angle C = 9240$ '.
- Solve the triangle.



- 3. ΔDWC , $\angle D = 12^{\circ}$, $\angle C = 60^{\circ}$, d = 11. Find c and w.

$$\frac{5.060}{C} = \frac{5.012}{11} \sqrt{C = 45.82}$$

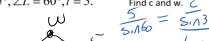
4. $\triangle ABC$, a = 8, b = 9, c = 7. Solve the triangle.



$$9^{2} = 7^{2} + 8^{2} - 2(7)(8)(65 \le B)$$

 $\frac{7}{\sin c} = \frac{9}{\sin(13.4)} | \angle B = 73.4$
 $\angle C = 48.1$

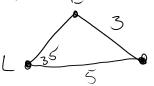
- 5. ΔLCW , $\angle C = 35^{\circ}$, $\angle L = 60^{\circ}$, l = 5.







- Find c and w. C 51/60 = 51/35 C = 3.31
- 6. $\Delta ELZ, \angle L = 35^{\circ}, e = 5, l = 3.$ Find z.



- $\frac{3}{80035} = \frac{5}{500E}$ $\frac{41}{2E = 72.90} = \frac{42}{2E = 107.07}$ $\frac{47}{2E = 72.90} = \frac{107.07}{2E = 107.07}$ ZE=72.9° ZE- 27.93°

 ZE=72.07° ZE= 37.93°

W

- * ==4.98 ==3.22