6 Review day 1.notebook

Three gears are arranged as shown.

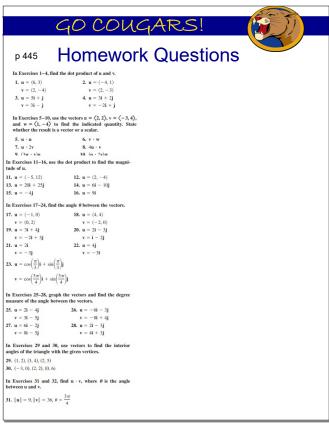
Determine the measure of angle θ correct to the nearest degree.

Warm up

For problems 2 and 3 round your answer to the nearest tenth.

- 2. Solve the triangle given B = 43, a = 22, b = 17.
- 3. Find the area of a triangle with sides a = 6, b = 12, c = 7.

Apr 10-5:56 AM



Feb 2-9:51 PM

6 Review day 1.notebook

```
10 if given acute angle, opp side, and side = h=opp
                                                                                                     given an other angle, topp > adj sine
game 2 angles

OD if given Dende angle, the side of yellow in his yellow

20 If given Dende angle, the side of yellow

20 If your One-language, approximation in his yellow

Africa. K = $\frac{1}{2}\text{Other O. :\(\frac{1}{2}\text{Side })\text{Side })\text{In (myles below) and of the history of the side of the history of the side of the history of 
    Law of cosines SAS
a=b+c-Zbc cosA SSS
                                                     COS^{-1}\left(\frac{\alpha^{3}-b^{3}-c^{3}}{-2bc}\right) = A
                          Area: Heron's Formula S= athtc
                                                                                                                                                               K= VS(s-a)(s-b)(s-c)
                              Word problems using Los, Loc
                                                                  bearings are measured from North
                                                                               look for alternate interior angles
might use soft CAHTOA to find heights
                                                                                   Are Longth : AL= rodius radians
                      Vectors for desimposent form from points using demonstration soluble solubles useders vector oribinates for recognisted flat = \(\mathbb{V}^2 + \mathbb{N}^2 - \mathbb{N}^2 \mathbb{N}^2
                                                                               Unil vector (IIIII | IIIII)
                                                                                                 6 is directive my to the book of the control of the
                                                                  Dot product U.V: U,V, + UzV, -> scalar
                                                             Find angle bulleten 2 vectors

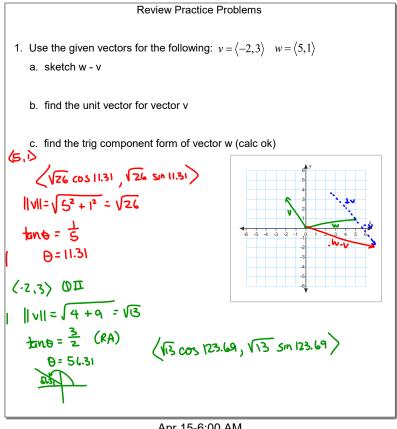
UV

COSE = JUTVII

TF U.V2 O Orthogonal vectors

(means porpardicular)
```

Apr 10-2:13 PM



Apr 15-6:00 AM

6 Review day 1.notebook

2. How many triangles with given information can be formed?

Do not solve.

Do not solve.

a.
$$A = 61^{\circ}$$
 $a = 8$, $b = 21$

b. $A = 112^{\circ}$, $a = 15$, $b = 17$

b. $A = 18^{\circ}$, $C = 65^{\circ}$, $C = 12$

2 angles given $A = 18^{\circ}$

Apr 7-6:38 AM

3. Solve the triangle to two decimal places.

$$a = 7, b = 15, c = 19$$

$$7^{2} = 15^{2} + 19^{2} - 2(15)(19) \cos A$$

$$16^{2} - 7^{2} + 19^{2} - 2(1)(19) \cos B$$

$$19^{2} = 7^{2} + 15^{2} - 2(1)(15) \cos C$$

$$C = \cos^{2}\left(\frac{19^{2} - 7^{2} - 19^{2}}{-2(1)(19)}\right) = 19.59$$

$$C = \cos^{2}\left(\frac{19^{2} - 7^{2} - 19^{2}}{-2(1)(19)}\right) = 45.93$$

$$C = \cos^{2}\left(\frac{19^{2} - 7^{2} - 15^{2}}{-2(1)(15)}\right) = 114.47$$
4. The physical parameters are equally spaced on a party go round. If the short

4. Twelve horses are equally spaced on a merry-go-round. If the chord connecting the center of each horse is 18 feet long, what is the diameter of the merry-go-round? What is the length of the arc between each horse?

$$\frac{360}{12} = 30^{\circ} \qquad \frac{310}{180} = \frac{51030}{18} = \frac{51035}{r} \qquad \text{AL} = 3477 \left(30 \cdot \frac{\pi}{180}\right)$$

$$4 = 69.55 \text{ ft} \qquad = 18.21 \text{ ft}$$

HOMEWORK



Review

p 461 1-73 odd, 79-90, 93, 95

p 465 1-15

Workbook p 151-152 1-12

p 445 2, 10, 28, 30, 32

Feb 2-9:51 PM

1. Solve the triangle.

$$B = 35, b = 12, c = 15$$

- 1. Solve the triangles given the following information.
 - a. C = 75, b = 49, c = 48

