

AimsONLINE College Algebra [MA1] - MAT-121-G13 (40207.201640)

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Writing Project #1 is now posted. Videos to follow. There's already some video related to WP# in the Section 1.5 Homework videos, in here

Please let me know of gaps in these
Chapter 1 homework videos.

S'1.1 finish } Goal: End-of-Work, Monday.
S'1.2 finish }

CP start-to-finish.

In Chapter 2, I started finding my rhythm
& it's more complete & better-organized.

Find Center & Radius and Graph

$$x^2 + 6x + y^2 + 8y = 0$$

$$x^2 + 6x + \left(\frac{6}{2}\right)^2 = (x + \frac{6}{2})^2$$

$$x^2 + 6x + 3^2 + y^2 + 8y + 4^2 = 0 + 9 + 16$$

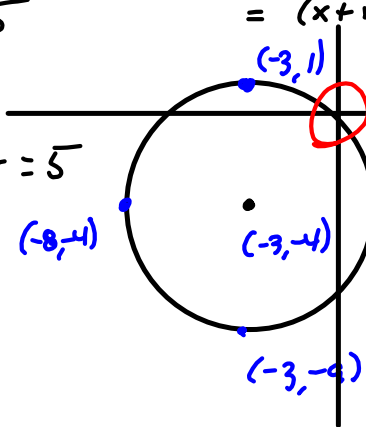
$$x^2 + 2x + \left(\frac{2}{2}\right)^2 = x^2 + 2x + 1^2 = (x + 1)^2$$

$\frac{6}{2} = 3 \rightarrow 3^2 = 9$ $\frac{8}{2} = 4 \rightarrow 4^2 = 16$

$$(x + 3)^2 + (y + 4)^2 = 25$$

$$(x - h)^2 + (y - k)^2 = r^2$$

$$(h, k) = (-3, -4), r = 5$$



more work needed to nail this "fussy bit" is OK, but this unless I ask for more details.

S1.2 MyLab #10, Textbook #47

Ex. Score: 0 of 1 pt HW Score: 0% (0 of 17 pts) 0 of 17 complet

Bobby and Rick are in a 16-lap race on a one-mile oval track. Bobby, averaging 98 mph, has completed six laps just as Rick is getting his car onto the track. What speed does Rick have to average to be even with Bobby at the end of the sixteenth lap?

To be even with Bobby at the end of the sixteenth lap, Rick has to average a speed of mph.
(Type an integer or a decimal.)

one-mile track.
 Bobby averaged 90 mph completed 2 laps before Rick started.
 What does Rick's avg speed have to be to catch Bobby by end of 10 laps?

3 out of 10 pts for lexicon:

Let s = Rick's average speed. (mph)

	Bobby	Ricky
D	16	$16 = \frac{7}{45} S$
r	90	S
t	$\frac{16 \text{ mi}}{90 \text{ mi/hr}}$	$\frac{7}{45}$

starts 2 laps later.
 That's Bobby's time minus 2 laps' worth of time

$$\frac{8}{45} = \frac{16}{90} - \frac{2}{90}, \text{ right?}$$

$$= \frac{14}{90} = \frac{7}{45}$$

Seems like getting this for Ricky's time was what was the key, for me.

THE MODEL:

$$D = D$$

$$(90)\left(\frac{16}{90}\right) = \frac{7}{45} S$$

$$16 = \frac{7}{45} S$$

$$103 \text{ mph} \approx (16)\left(\frac{45}{7}\right) = S$$

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rref([B])
[[1 0 -1]
 [0 1 2]]
16*45/7
102.8571429
    
```

→ $S \approx 102.8571429$

≈

Test-Prep
Videos Test 1

Linkie   click on Earth!

PROBLEMS I LIKE
in § 1.2 :

Shared Work
Mixture Problems

→ I think there're examples
of both in the test-prep
videos

Vote is in: Most prefer I answer questions on paper and then scan to notes, later, rather than messing with you like I am, right now.