

Algebra 2

Weds. 3-6-13

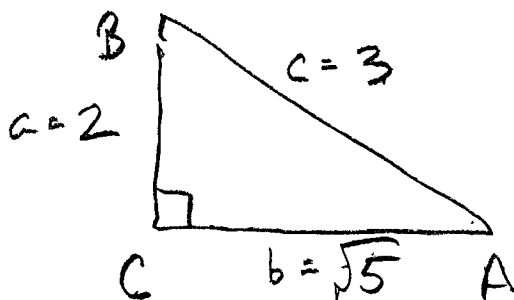
CLASS NOTES

(54) $\sin \theta = 0.4$ $\csc \theta = ?$

$$\csc \theta = \frac{10}{4} = \boxed{\frac{5}{2}}$$

(50) $\triangle ABC$, right $\angle C$,

$\sin \angle A = \frac{2}{3}$, $\cos \angle A = ?$



$$\boxed{\frac{\sqrt{5}}{3}}$$

(47) Two concentric circles.

$$r_{\text{outer}} = 4 \text{ ft}$$

d from outer to inner is 1.75 ft.

Expression for area of inner circle?

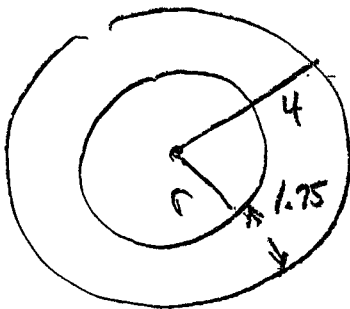
(A) $(4 - 1.75)^2 \pi$

(B) $(4 - 1.75) \pi$

(C) $(4^2 - 1.75^2) \pi$

(D) $2(4 - 1.75)^2 \pi$

(E) $2(4 - 1.75) \pi$



$$r_{\text{inner}} = 4 - 1.75$$

$$\therefore (4 - 1.75)^2 \pi$$

(43) How many distinct orders can 5 students stand in line to buy year books?

$$\underline{5} \cdot \underline{4} \cdot \underline{3} \cdot \underline{2} \cdot \underline{1} = \boxed{120}$$

$$5! = \boxed{120}$$

(37) First 3 terms of Arithmetic sequence:
 $2\frac{1}{6}, 3\frac{1}{3}, 4\frac{1}{2}$, 4th term?

$$\frac{13}{6}, \frac{10}{3}, \frac{9}{2}$$

$$\frac{13}{6}, \frac{20}{6}, \frac{27}{6},$$

$$\underline{\underline{\frac{34}{6}}} = \boxed{5\frac{2}{3}}$$

"Circumference"

(32) C of circle, in cm,
if r = 6cm — exact

$$C = 2\pi r$$

$$C = 12\pi \text{ cm}$$

(31) Ends of dia. at (2, 8), (-2, 6)
Center of circle?

$$(0, 7)$$

(30) Vertex of parabola:
 $y = 2(x - 3)^2 - 5$

$$(3, -5)$$