

Honors Geometry Final Test Review

Hints Extra Problems (Cumulative) Chapters 5-9

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24. $m\angle = 180 - 60 = 120$; $r = 4$; $A_{\text{sec}} = \frac{120}{360} \pi (4)^2$; $A_{\Delta} = \frac{1}{2}(4\sqrt{3})(2)$

25. $x: \frac{\frac{5}{3}}{\frac{3}{9}} = \frac{x}{20}; \frac{\frac{5}{3}}{\frac{3}{9}} = \frac{5}{3} \cdot \frac{3}{4} = \frac{5}{4}; \frac{x}{20} = \frac{x}{1} \cdot \frac{9}{20} = \frac{9x}{20}$

$y: \text{Pythag Thm}: \frac{5}{3} + \frac{4}{3} = \frac{9}{3} = 3 \text{ and } \frac{25}{9} + \frac{20}{9} = \frac{45}{9} = 5$

26. $x + y = 12$, $x = y$

27. $\frac{x}{x-1} = \frac{x+4}{x+2}$; $x(x+2) = (x-1)(x+4)$; $x^2 + 2x = x^2 + 4x - x - 4$

28. a) $x = 3 \tan 37^\circ$

b) $x = \tan^{-1} \frac{8}{10}$

29. $\sin P = \frac{15}{17}$, $\cos P = \frac{8}{17}$

30. a) $x = 63.6^\circ \approx 64^\circ$

b) $x = 11.03 \approx 11.0$

31. $x = -42 \cos 28^\circ$, $y = -42 \sin 28^\circ$

32. $x = \tan^{-1} \frac{.8}{1}$, $d = \sqrt{1^2 + .8^2}$

33. $2s^2 = 34^2$, $s = \sqrt{\frac{34 \cdot 34}{2}} = 24.04$