

Honors Unit 5 Review Answers

1. CDE
2. AB
3. AC
4. D
5. $x = 19, = 9.\bar{4}, \text{sum} = 28.\bar{4}$
6. $x = 90, y = 93, z = 15, \text{sum} = 198$
7. ABCDE
8. A
9. AE
10. ACE
11. AC
12. BDE
13. $h(x) = \frac{3}{4}x + \frac{17}{4}, m = \frac{3}{4}, b = \frac{17}{4}, \text{sum} = 5$

28-31. Constructions....watch videos to compare accuracy

32.

14. $k(x) = \frac{3}{2}x - 8, m = \frac{3}{2}, b = -8, \text{sum} = -6.5$
15. $\perp_m = \frac{1}{3}, \text{Point } (3, -7), \text{Dist} = 2\sqrt{10}$
16. $4\sqrt{5}$
17. 70°
18. 45°
19. 65°
20. 45°
21. 70°
22. 110°
23. $x = 16, y = 33.5, \text{Sum} = 49.5$
24. $x = 6, m\angle HGF = 66^\circ$
25. $x = 2$
26. ACDE
27. CD

Statements	Reasons
1. $\angle A$ and $\angle B$ form a linear pair	1. Given
2. $\angle A$ and $\angle B$ are supplementary	2. Definition of a linear pair
3. $m\angle A + m\angle B = 180$	3. Definition of a supplementary angles
4. $m\angle B + m\angle C + m\angle D = 180$	4. Triangle Sum Theorem
5. $m\angle A + m\angle B = m\angle B + m\angle C + m\angle D$	5. Transitive Property
6. $m\angle A = m\angle C + m\angle D$	6. Subtraction Property
7. $\angle A = \angle D + \angle C$	7. Definition of Congruent Angles