

Honors Geometry Spring Exam Review Key Chapter 6 – 11

1. D
2. A
3. C
4. B
5. C
6. C
7. A
8. D
9. A
10. A
11. A
12. C
13. C
14. B
15. B
16. C
17. B
18. A
19. C
20. B
21. D
22. C
23. D
24. C
25. A
26. B
27. A
28. A
29. C
30. C
31. C
32. A
33. D
34. A
35. D
36. $x = 90^\circ, y = 50^\circ$
37. C
38. B
39. 360°
40. 1080°

41. C
 42. A
 43. C
 44. C
 45. D
 46. A
 47. B
 48. B
 49. A
 50. A
 51. B
 52. D
 53. B
 54. $(x + 4)^2 + (y + 3)^2 = 36$
 55. $= 54\sqrt{2} \approx 76.368$
 56. $32 u^2$
 57. $= 16\sqrt{3} \approx 27.713 u^2$
 58. $40 u^2$
 59. $= 48\sqrt{3} u^2 \approx 83.138 u^2$
 60. $= 384\sqrt{3} u^2 \approx 665.108u^2$
 61. C
 62. C
 63. a, c, d, f
 64. 8u
 65. 6u
 66. 5u
 67. 17.5 u
 68. 16u
 69. 36u
 70. 20u
 71. $X = 21u, y = 24 u, z = 36u$
 72. $x = \frac{35}{4}u, y = \frac{20}{3}u, z = 5u$

$\overline{BE} \cong \overline{EC}$	$\overline{AC} \parallel \overline{FE}$
$\overline{AD} \cong \overline{DC}$	$\overline{FD} \parallel \overline{BC}$
$\overline{AF} \cong \overline{FB}$	$\overline{DE} \parallel \overline{AB}$

73.
 74. 4

75. An odd peanut butter cup may contain apple butter instead.

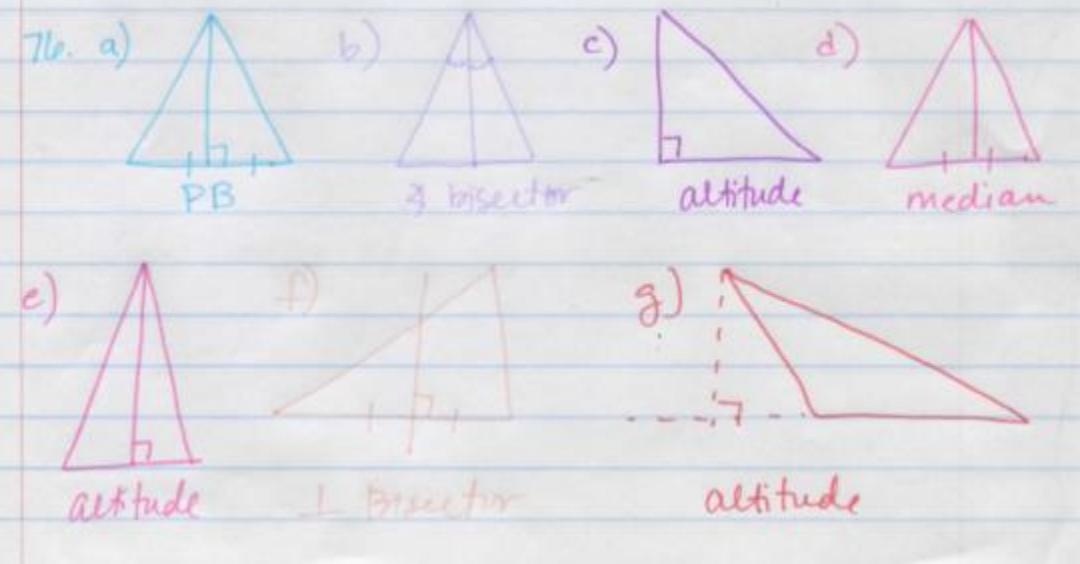
Altitude \rightarrow orthocenter

Perpendicular Bisector \rightarrow circumcenter (= to vertices)

Median \rightarrow centroid (balance point)

Angle Bisector \rightarrow incenter (= to sides)

75.



76.

77. a) True, always by definition
b) False, never only isos. & equil.
c) False, all obtuse triangles
d) True, from vertex angles all 4 special segments are the same segments.
e) False, only in isos & equil.
f) False, must hit all 3 vertices

78. $\frac{7}{3} < x < 12$

79. a) $x = 3$
b) angle B < angle C < angle A