



Regents Practice Test 2 - Geometry

ANSWER KEY

Part I:

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|-------|--------|--------|--------|
| (1) 2 | (9) 2 | (17) 1 | (25) 1 |
| (2) 3 | (10) 4 | (18) 2 | (26) 4 |
| (3) 1 | (11) 1 | (19) 3 | (27) 3 |
| (4) 1 | (12) 4 | (20) 2 | (28) 2 |
| (5) 3 | (13) 3 | (21) 2 | |
| (6) 4 | (14) 3 | (22) 2 | |
| (7) 1 | (15) 2 | (23) 1 | |
| (8) 4 | (16) 1 | (24) 4 | |

Part II:

- (29) 68 (30) $x = 6$ (31) $m\angle A = 40$ and $m\angle B = 100$
(32) $A'(-1,1)$ $B'(-3,2)$ $C'(-1,6)$ (33) see construction
(34) Contrapositive: If the diameter does not bisect the chord, then the diameter is not perpendicular to the chord. True.

Part III:

- (35) $720\sqrt{3} = 1247.1$ cubic centimeters (36) 78°
(37) (2,7) and (-2,-9)

Part IV:

- (38) Same midpoints at (2,1)
Slopes are negative reciprocals -2 and $\frac{1}{2}$
Other methods possible.