



## Regents Practice Test 3 - Algebra 2 Trig

### *ANSWER KEY*

#### Part I:

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

#### Part II:

- |                                       |   |                                |
|---------------------------------------|---|--------------------------------|
| (28) $x = 1, x = -2$                  | (29) $x = 7$                                  | (30) 0                         |
| (31) $(-\infty, -3) \cup (4, \infty)$ | (32) $225^\circ$                              | (33) $x = 3i, x = -3i, x = -3$ |
| (34) $x = 6$                          | (35) $\theta = 135^\circ, \theta = 315^\circ$ |                                |

#### Part III:

- |   |        |
|---|--------|
| (36) Equation: $y = 999.9725(1.0493)^x$ , 1367 bacteria |        |
| (37) 116 degrees  | (38) 4 |

#### Part IV:

- (39)  $-(x - 3)$