

## Practice Test

- |      |       |                       |
|------|-------|-----------------------|
| 1. A | 10. D | 1a) $(0, 3)$          |
| 2. C | 11. B | $Q_2 \rightarrow Q_1$ |
| 3. B | 12. C | $x \in \mathbb{R}$    |
| 4. D | 13. A | $y > 0$               |
| 5. C | 14. D | Increase              |
| 6. B | 15. A | $b > 1$               |
| 7. C |       | b) $(0, 7.5)$         |
| 8. B |       | $Q_2 \rightarrow Q_1$ |
| 9. A |       | $x \in \mathbb{R}$    |
|      |       | $y > 0$               |
|      |       | Decreasing            |
|      |       | $0 < b < 1$           |

$$3a) x = 5 \quad b) x = \frac{13}{2}$$

$$c) x = -\frac{10}{3} \quad d) x = 4$$

$$4. \$4571.17$$

$$5. \$8318.26$$

$$6. 1966080 \text{ mg}$$

$$7. 600 \text{ yrs.}$$