

3. Functions

Answers

3.01. C	3.02. B	3.03. A	3.04. D	3.05. C
	3.07. A	3.08. B		
3.11. B		3.13. B	3.14. C	3.15. D
3.16. B	3.17. A		3.19 D	3.20 C
3.21. C	3.22. C		3.24. D	3.25. C
3.26. D	3.27 D			

3.06. (a) $4, -1$ (b) -7 (c) $(-\infty, -3) \cup (1, \infty)$

3.09. (a) 15 (b) 26

3.10

- (a) $\langle -7, 7 \rangle$ (the closed interval)
- (b) $\langle -7, 7 \rangle$ (the interval left-closed and right-open)
- (c) $(5, 7 \rangle$ (the interval left-open and right-closed)
- (d) -7
- (e) $x \in (-5, 5)$

3.12.

- (a) $(-7, 7 \rangle$ (the interval left-open and right-closed)
- (b) $\langle -7, 7 \rangle$ (the closed interval)
- (c) 7
- (d) $\langle -5, 0 \rangle$ (the interval left-closed and right-open)
- (e) 3

3.18 (a) $(-\infty, 2 \rangle$ (b) $\langle -18, \infty$) (c) $(-\infty, -1 \rangle \cup \langle 5, \infty)$

3.23 (a) $x = 1$ (b) 0 (c) 12