## Arithmetic Sequences

Write down the value of $a$ and $d$ for each of these arithmetic sequences.

(a) 5, 7, 9, 11,... (b) 5, 9, 13, 17,...

(c) 17, 13, 9, 5,... (d) 20, 17, 14, 11,...

(e) 20, 30, 40, 50,...

(f) 20, 21, 22, 23,...

(g) 20, 20.5, 21, 21.5,...

(h) 2.6, 2.8, 3, 3.2,...

(i) 5.6, 5.3, 5, 4.7,...

(j) 5, 2, -1, -4,...

(k) 7, -3, -13, -23,...

(l) -2, -4, -6, -8,...

(a) $a=5, d=2$ (b) $a=5, d=4$
(c) $a=17, d=-4$ (d) $a=20, d=-3$
(e) $a=20, d=10$
(f) $a=20, d=1$
(g) $a=20, d=0.5$
(h) $a=2.6, d=0.2$
(i) $a=5.6, d=-0.3$
(j) $a=5, d=-3$
(k) $a=7, d=-10$
(l) $a=-2, d=-2$

Given the values of a and d, find the term specified.

| | | | |
|---|---|---|---|
| (a) | $a = 6$ | $d = 3$ | 20th term |
| (b) | $a = 10$ | $d = 2$ | 50th term |
| (c) | $a = 3$ | $d = 4$ | 30th term |
| (d) | $a = 5$ | $d = -3$ | 25th term |
| (e) | $a = 8$ | $d = -2$ | 100th term |
| (f) | $a = 50$ | $d = 5$ | 80th term |
| (g) | $a = 1$ | $d = 0.2$ | 75th term |
| (h) | $a = -8$ | $d = 2$ | 60th term |

(a) 63
(b) 108
(c) 119
(d) -67
(e) -190
(f) 445
(g) 15.8
(h) 110

For each of the sequences given, find the term specified.

| | | |
|---|---|---|
| (a) | 6, 9, 12, 15,... | 20th term |
| (b) | 10, 14, 18, 22,... | 50th term |
| (c) | 3, 7, 11, 15,... | 30th term |
| (d) | 5, 5.4, 5.8, 6.2,... | 25th term |
| (e) | 10, 8, 6, 4,... | 100th term |
| (f) | 50, 45, 40, 35,... | 80th term |
| (g) | -3, -6, -9, -12,... | 75th term |

(a) 63
(b) 206
(c) 119
(d) 14.6
(e) -188
(f) -345
(g) -225