Missing Terms in Sequences

Given that each of these sequences is arithmetic (linear), find the missing terms.

(a) $5, 8, \_\_, \_\_, 17, 20, \ldots$

(b) $9, \_\_, 17, 21, \_\_, 29, \ldots$

(c) $29, 27, \_\_, 23, \_\_ 19, \ldots$

(d) $\_\_, -6, -11, \_\_, -21, -26, \ldots$

(e) $0.5, 0.8, \_\_, \_\_, 1.7, 2, \ldots$

(a) 11, 14
(b) 13, 25
(c) 25, 21
(d) -1, -16
(e) 1.1, 1.4

Given that each of these sequences is geometric, find the missing terms.

(a) $1, 2, 4, \_\_, \_\_, 32, 64, \ldots$

(b) $8, 24, \_\_, 216, \_\_, 1944, \ldots$

(c) $\_\_, 100, 50, 25, \_\_, 6.25, \ldots$

(d) $8, \_\_, 18, 27, \_\_, 60.75, \ldots$

(e) $\_\_, \frac{1}{4}, \_\_, \frac{1}{16}, \frac{1}{32}, \frac{1}{64}, \ldots$

(a) 8, 16
(b) 72, 648
(c) 200, 12.5
(d) 12, 40.5
(e) $\frac{1}{2}, \frac{1}{8}$

Given that each of these sequences is quadratic, find the missing terms.

(a) $5, 6, 8, \_\_, \_\_, 20, \ldots$

(b) $1, \_\_, \_\_, 13, 23, 36, \ldots$

(c) $\_\_, 4, 8, 14, \_\_, 32, \ldots$

(d) $12, \_\_, 20, 27, 36, \_\_, \ldots$

(e) $7, 8.5, 11, \_\_, \_\_, 24.5, \ldots$

(a) 11, 15
(b) 2, 6
(c) 2, 22
(d) 15, 47
(e) 14.5, 19

Find the missing terms in each of these sequences.

(a) $1000, 200, \_\_, 8, 1.6, \_\_$

(b) $2, 3, 5, \_\_, \_\_, 17, \ldots$

(c) $\_\_, 2, -1, \_\_, -7, -10, \ldots$

(d) $\_\_, \_\_, 6.1, 6.5, 6.9, 7.3, \ldots$

(e) $\frac{3}{4}, \_\_, \frac{27}{16}, \frac{81}{32}, \frac{243}{64}, \_\_, \ldots$

(a) 40, 0.32
(b) 8, 12
(c) 5, -4
(d) 5.3, 5.7
(e) $\frac{9}{8}, \frac{729}{128}$