

Identify which of the series below are arithmetic series and which are geometric series. Where relevant find the common difference or common ratio.

$$7 + 8\frac{1}{2} + 10 + 11\frac{1}{2}$$

$$3 + 9 + 27 + 81$$

$$-2 - 5 - 8 - 11$$

$$1 + \frac{1}{4} + \frac{1}{16} + \frac{1}{64}$$

$$1 + 1.1 + 1.2 + 1.3$$

$$-1 + 2 - 4 + 8$$

$$1 + 1.1 + 1.11 + 1.111$$

$$1 - 1 + 1 - 1$$

$$\frac{1}{2} + \frac{5}{6} + \frac{7}{6} + \frac{3}{2}$$

$$1 + 1\frac{1}{2} + 1\frac{1}{4} + 1\frac{1}{8}$$

$$1^2 + 2^2 + 3^2 + 4^2$$

$$a + a^2 + a^3 + a^4$$

$$n + 2n + 3n + 4n$$

$$1 + 1.1 + 1.21 + 1.331$$

$$1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4}$$

$$\frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \frac{1}{36}$$

$$1\frac{1}{8} + 2\frac{1}{4} + 3\frac{3}{8} + 4\frac{1}{2}$$

$$2 + 4 - 8 - 16$$

$$19 + 12 + 5 - 2 - 9$$

$$1 - 2 + 3 - 4 + 5$$

$$\frac{3}{4} + \frac{9}{2} + 27 + 162$$

$$1 + 0.8 + 0.6 + 0.4$$