Factorising linear expressions

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Name:

1) Fully factorise the following expressions:

a) $4x + 8$

b) $5k - 30$

c) $25h + 15$

d) $21a - 35$

e) $10 + 20x$

f) $20y - 16$

g) $24a + 12b$

h) $45x + 15y$

i) $45x + 18$

j) $72y - 132$

k) $24k - 120m$

l) $19a + 57p$

m) $64a + 80b$

n) $7a + 21b - 49c$

o) $15x + 5y - 30z$

2) Fully factorise the following expressions:

p) $3x^2 + 9x$

q) $4k^2 - 16k$

r) $25x + 15xy$

s) $24a^2 + 6ab$

t) $36x^3 - 24x^2$

u) $20x^2y + 16y$

v) $24a^3b + 18a^2b$

w) $15x^2 + 15x$

x) $25x^2 - 5xy^2 + 10xy$

y) $10a^2b + 20a - 40abc$

3) Fully factorise the following expressions:

a) $24a^5b^2 + 18a^4bc^2$

b) $5p^5q^4r^2 - 25p^2q^2$

c) $20a^2b^2c^3 + 50a^4b$

d) $24m^2n^3 - 28m^3np^4$

e) $15r^2s^2 + 21rs^4$

k) $42v^3w^2x^3 + 14v^3wx^2$

l) $25w^4x^3y^5 + 32wx^4$

m) $4s^2t^3 + 18s^2t^4$

n) $105x^2y + 15x^2y^3$

o) $204r^3st^2 - 34rs^2t$

Exam question:

Fully factorise $28xy^2z^3 - 35x^3y^7z^3$