

MAP4C Mid-Term Exam Review

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1 Algebra

1. Expand and simplify.

$$\begin{aligned} \text{a) } & (p-4)(p+5) \\ &= p^2 + 5p - 4p - 20 \\ &= p^2 + p - 20 \end{aligned}$$

$$\begin{aligned} \text{b) } & (n+8)(n+2) \\ &= n^2 + 2n + 8n + 16 \\ &= n^2 + 10n + 16 \end{aligned}$$

$$\begin{aligned} \text{c) } & (m+3)(m=7) \\ &= m^2 - 7m + 3m = 21 \\ &= m^2 - 4m - 21 \end{aligned}$$

$$\begin{aligned} \text{d) } & (w-4)(w-6) \\ &= w^2 - 6w - 4w + 24 \\ &= w^2 - 10w + 24 \end{aligned}$$

$$\begin{aligned} \text{e) } & (2x-3)(5x-4) \\ &= 10x^2 - 8x - 15x + 12 \\ &= 10x^2 - 23x + 12 \end{aligned}$$

$$\begin{aligned} \text{f) } & (y-5)(2y+9) \\ &= 2y^2 + 9y - 10y - 45 \\ &= 2y^2 - y - 45 \end{aligned}$$