

$$\frac{9b}{3} - \frac{27bx}{3} + \frac{3x^2}{3}$$

$$= 3(3b - 9bx + x^2)$$

$$= 3(\quad)(\quad)$$

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Factor each completely.

Handwritten work for problem 11:

$$\begin{aligned}
 &= 9b^2 - 4b + 90b - 40 + 4 \\
 &= 9b^2 - 4b + 86b - 40 \\
 &= (9b - 4)(b + 10)
 \end{aligned}$$

Handwritten notes:

- 360 (circled in blue)
- 86 (circled in blue)
- $Decomposition$ (written in blue)
- $(9b - 4)(b + 10)$ (written in red)
- $9b^2 - 4b + 90b - 40$ (written in red)
- $9b^2 + 86b - 40$ (written in blue)

11) $9b^2 + 86b - 40$

12) $8n^2 + 10n - 63$

13) $9n^2 + 98n + 80$

14) $6k^2 - 15k$

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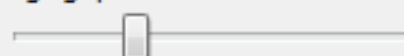
1-up

Factor each completely.

12) $8n^2 + 10n - 63$

13) $9n^2 + 98n + 80$

14) $6k^2 - 15k$

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Factor each completely.

12) $8n^2 + 10n - 63$

$x(-504)$
 $+ (10)$

$= 8n^2 - 18n + 28n - 63$

$= 2n(4n - 9) + 7(4n - 9)$
 $= (4n - 9)(2n + 7)$

