

Review 8.5-6

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|---|---|---|
| 1. $x^2 - 4x + 3$ $(x-3)(x-1)$ | 2. $3x^2 - 4x + 1$ $x^2 - 4x + 3$ $(x-3)(x-\frac{1}{3})$ $(x-1)(3x-1)$ | 3. $v^2 + v - 2$ $(v+2)(v-1)$ |
| 4. $5t^2 - t - 18$ $(5t+9)(t-2)$ | 5. $m^2 + 9m - 22$ $(m+11)(m-2)$ | 6. $x^2 - 2x - 15$ $(x-5)(x+3)$ |
| 7. $2n^2 + n - 3$ $n^2 + n - 6$ $(n+3)(n-2)$ $(2n+3)(n-1)$ | 8. $2h^2 - 5h - 3$ $h^2 - 5h - 6$ $(h+1)(h-6)$ $(2h+1)(h-3)$ | 9. $m^2 - 25$ $(m+5)(m-5)$ |
| 10. $9y^2 - 1$ $(3y+1)(3y-1)$ | 11. $9y^2 + 6y + 1$ $(3y+1)(3y+1)$ | 12. $p^2 + 2p + 1$ $(p+1)(p+1)$ $(p+1)^2$ |
| 13. $x^2 + 6x + 9$ $(x+3)(x+3)$ $(x+3)^2$ | 14. $25x^2 - 9$ $(5x+3)(5x-3)$ | 15. $4t^2 + t - 3$ $t^2 + t - 12$ $(t+4)(t-3)$ $(3t+4)(t-1)$ |
| 16. $9c^2 - 169$ $(3c+13)(3c-13)$ | 17. $4m^2 - 121$ $(2m+11)(2m-11)$ | 18. $3v^2 + 10v - 8$ $v^2 + 10v - 24$ $(v+12)(v-2)$ |

#19 & 20 – Use factoring to find expressions for the length & width of the figures.

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| 19. A rectangular parking lot has an area of $10w^2 - 9w - 40$. $(5w+8)(2w-5)$ | 19. A rectangular door has an area of $12d^2 - 31d + 14$. $(12d-7)(d-2)$ |
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