Practice: GCF + Factoring $x^2 + bx + c$

*** When factoring, always look for a GCF FIRST and simplify. Then begin the factoring process using the X method. In this exercise, pull out the GCF, then factor. All three are the factors for the final answer!

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|---|---|
| EX: $8x^2 + 48x + 40 \rightarrow 8(x^2 + 6x + 5) \rightarrow$ | $8(x + 1)(x + 5)$ |
| 1. $2x^2 + 60x - 128$ | |
| 2. $4n^2 - 12n - 40$ | |
| 3. $-5y^2 - 30y - 25$ | |
| 4. $10p^2 + 30p - 40$ | |
| 5. $-7q^2 + 56q - 84$ | |
| 6. $6w^2 - 84wz + 240z^2$ | |
| 7. $-3m^2 + 9mn + 84n^2$ | |
| 8. $4p^2 + 44pq + 96q^2$ | |

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