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| **Match-Up** | **Using the Factor Theorem** |

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| **1** | $$x^{2}-11x+28$$ |  | **A** | $(x-5)$ is a factor |
| **2** | $$x^{2}-5x-50$$ |  | **B** | $(x+1)$ is a factor |
| **3** | $$2x^{2}+19x+9$$ |  | **C** | $(x+3)$ is a factor |
| **4** | $$x^{3}+4x^{2}-12x$$ |  | **D** | $(x-4)$ is a factor |
| **5** | $$x^{3}-10x^{2}+16x$$ |  | **E** | $(x+9)$ is a factor |
| **6** | $$x^{3}-2x^{2}-25x+50$$ |  | **F** | $(x+2)$ is a factor |
| **7** | $$x^{3}+5x^{2}-22x+16$$ |  | **G** | $(x-3)$ is a factor |
| **8** | $$x^{3}+2x^{2}-33x-90$$ |  | **H** | $(x+6)$ is a factor |
| **9** | $$x^{3}+2x^{2}-41x-42$$ |  | **I** | $(x-8)$ is a factor |
| **10** | $$3x^{3}-x^{2}-12x+4$$ |  | **J** | $(x+4)$ is a factor |
| **11** | $$2x^{3}+5x^{2}-14x-8$$ |  | **K** | $(x-1)$ is a factor |
| **12** | $$x^{4}+2x^{3}-29x^{2}+42x$$ |  | **L** | $(x-10)$ is a factor |

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| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
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