Factoring Assignment /24

Factor each of the following expressions completely. If the expression cannot be factored write “factored” for the answer. 2 marks each

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| --- | --- |
| $$x^{2}+5x-6$$ | $$-2x^{2}+2x+84$$ |
| $$x^{2}-144$$ | $$\frac{1}{4}x^{2}+2x+3$$ |
| $$3x^{2}+4x-7$$ | $$49x^{2}-70xy+25y^{2}$$ |
| $$12x^{2}-36x+27$$ | $$8x^{4}-18x^{2}+9$$ |
| $$(x^{2}+8x+16)-25(x^{2}-6x+9)$$ | $$x^{2}+8x+9$$ |
| $$4\left(5x+3\right)^{2}+10\left(5x+3\right)-6$$ | $$x^{3}-4x^{2}-25x+100$$ |