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| **Solving Equations with Powers and Roots** |
| **(a)** | **(b)** | **(c)** | **(d)** |
| Solve$$3x^{2}-25=2x^{2}$$ | Solve$$4\sqrt{x}+3=5\sqrt{x}$$ | Solve$$7x^{3}+16=5x^{3}$$ | Solve$$9-\sqrt[3]{x}=2\sqrt[3]{x}$$ |
| **(e)** | **(f)** | **(g)** | **(h)** |
| Solve$$4+5\sqrt{x}=2\sqrt{x}+16$$ | Solve$$6x^{3}-1=4+x^{3}$$ | Solve$$72-x^{2}=x^{2}-26$$ | Solve$$3-2\sqrt{x}=\sqrt{x}-21$$ |
| **(i)** | **(j)** | **(k)** | **(l)** |
| Solve$$7\left(\sqrt[3]{x}-1\right)=13+3\sqrt[3]{x}$$ | Solve$$5x^{2}-48=2\left(30+x^{2}\right)$$ | Solve$$3(21-x^{3})=9-5x^{3}$$ | Solve$$3\left(\sqrt{x}-4\right)=2\left(8-\sqrt{x}\right)+\sqrt{x}$$ |