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30min后该物体温度降至$$3 0 ^ { \\\\circ } C ,$$若要将该物体的温度继续降至$$2 1 ^ { \\\\circ } C ,$$还需冷却多长时间?","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1434},{"x":1654,"y":1434},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":50,"y":1434},{"x":1601,"y":1434},{"x":1601,"y":1663},{"x":50,"y":1663}]],"element\_list":[{"type":0,"text":"(20)(本题满分10分)","pos\_list":[[{"x":54,"y":1447},{"x":422,"y":1447},{"x":422,"y":1479},{"x":54,"y":1479}]],"content\_list":[{"type":1,"prob":99,"string":"(20)(本题满分10分)","option":"","pos":[{"x":54,"y":1447},{"x":422,"y":1447},{"x":422,"y":1479},{"x":54,"y":1479}]}]},{"type":0,"text":"已知高温物体置于低温介质中,任一时刻该物体温度对时间的变化率与该时刻物体和介质的温差成正比.现将一初始温度为$$1 2 0 ^ { \\\\circ } C$$的物体在$$2 0 ^ { \\\\circ } C$$的恒温介质中冷却, 30min后该物体温度降至$$3 0 ^ { \\\\circ } C ,$$若要将该物体的温度继续降至$$2 1 ^ { \\\\circ } C 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