$$\dfrac{\dfrac{\dfrac{\dfrac{\dfrac{\dfrac{\dfrac{\dfrac{\dfrac{\neg(p\wedge q),p,q\vdash p}{\neg(p\wedge q),p,q\vdash p\wedge q}\,\text{ax}\quad \dfrac{\neg(p\wedge q),p,q\vdash q}{}\,\text{ax}}{\neg(p\wedge q),p,q\vdash p\wedge q}\,\wedge i \quad \dfrac{\neg(p\wedge q),p,q\vdash \neg(p\wedge q)}{}\,\text{ax}}{\neg(p\wedge q),p,q\vdash \bot}\,\neg e}{\neg(p\wedge q),p\vdash q\vee\neg q}\,\text{LEM} \quad \dfrac{\neg(p\wedge q),p,\neg q\vdash \neg q}{\neg(p\wedge q),p,\neg q\vdash \neg p\vee\neg q}\,\text{ax}\;\vee i2}{\neg(p\wedge q),p\vdash \neg p\vee\neg q}\,\vee e \quad \dfrac{\neg(p\wedge q),\neg p\vdash \neg p}{\neg(p\wedge q),\neg p\vdash \neg p\vee\neg q}\,\text{ax}\;\vee i1}{\neg(p\wedge q)\vdash p\vee\neg p}\,\text{LEM} \quad \dfrac{\neg(p\wedge q),p\vdash \neg p\vee\neg q}{}}{\neg(p\wedge q)\vdash \neg p\vee\neg q}\,\vee e}{\vdash \neg(p\wedge q)\Rightarrow(\neg p\vee\neg q)}\,\Rightarrow i$$

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