1. Movie 1980: \( p \land q \), where \( p = \) “It’s dark outside” and \( q = \) “We’re wearing sunglasses.”

2. Pop music 1986: \( \neg(q \Rightarrow p) \land \neg(s \Rightarrow r) \), where \( p = \) “You are rich,” \( q = \) “You are my girl,” \( r = \) “You are cool,” and \( s = \) “You rule my world.”

3. Pop music 2015: \( \neg M(you) \land \forall x M(x) \), where \( M(x) = \) “My momma likes x.”

4. Movie soundtrack 2013: \( \forall t \leq 0 \neg C(t) \), where \( C(t) = \) “The cold bothers me at time \( t \).”

5. Literature c. 1600: \( \exists u (R(u) \land D(u)) \), where \( R(u) = \) “\( u \) is rotten” and \( D(u) = \) “\( u \) is in the state of Denmark.”

6. Movie soundtrack 2006: \( \neg \exists u (S(u) \land \neg R(u)) \), where \( S(u) = \) “\( u \) is a star in heaven” and \( R(u) = \) “We can reach \( u \).”

7. Musical 1986 and Movie 2014: \( \exists x S(x) \land \neg \exists y A(y) \), where \( S(x) = \) “\( x \) is on your side” and \( A(y) = \) “\( y \) is alone.”

8. Movie 2001: \( \forall x (W(x) \Rightarrow \neg L(x) \land \neg E(x)) \), where \( W(x) = \) “\( x \) is a wizard,” \( L(x) = \) “\( x \) is late,” and \( E(x) = \) “\( x \) is early.”

9. Pop music 1987: \( \forall t \geq 0 \neg (G(\text{give you up}, t) \lor G(\text{let you down}, t) \lor G(\text{run around}, t) \lor G(\text{desert you}, t)) \), where \( G(u, t) = \) “I am going to do \( u \) at time \( t \).”

10. Country music 1990: \( \exists x \exists y (F(x) \land F(y) \land L(x) \land L(y) \land x \neq y) \), where \( F(x) = \) “I am friends with \( x \)” and \( L(x) = \) “\( x \) is in low places.”

11. Pop music 1990: \( \exists t > 0 \exists x (T(x, t) \land S(x, t)) \), where \( T(x, t) = \) “At time \( t \), \( x \) makes you turn around” and \( S(x, t) = \) “At time \( t \), \( x \) makes you say goodbye.”

12. Folk rock music 1965: \( \forall u \exists t S(u, t) \), where \( S(u, t) = \) “\( t \) is the season for \( u \).”

13. Pop music 2011: \( \neg S(you) \land \forall x ((x \neq you \land R(x)) \Rightarrow S(x)) \), where \( S(x) = \) “\( x \) can see it” and \( R(x) = \) “\( x \) is in the room.”
14. Country music 2010: \( (T = 1:15) \land \neg (\exists y \neq I(W(I,y,T))) \land N(I,you,T) \), where \( T \) is the current time, \( W(x,y,t) = "x" \text{ is with } y \text{ at time } t." \)

15. Country music 2015: \( \exists t_1 < 0(K(I,t_1)) \land \forall t < t_1 \forall x\neg K(x,t) \land \exists t_2 > 0(K(she,t_2)) \land \forall t > t_2 \forall x\neg K(x,t) \), where \( K(x,t) = "\text{He kisses } x \text{ at time } t." \)

16. New wave music 1983: \( \forall x (F(you,x) \Rightarrow \neg D(x)) \land \forall x (\neg D(x) \Rightarrow \neg F(I,x)) \), where \( F(x,y) = "x \text{ and } y \text{ are friends}" \) and \( D(x) = "x \text{ dances}" \).

17. Folk rock music 1972: \( p \land q \land \exists x_1 \exists x_2 \exists x_3 \exists x_4 \exists x_5 \exists x_6 \exists x_7 (\forall i \in J(M(x_i) \land W(x_i)) \land \forall i \in J(i \leq 4 \Rightarrow O(x_i)) \land S(x_5) \land S(x_6) \land F(x_7) \land \forall i \in J(\forall j \in J(i \neq j \Rightarrow x_i \neq x_j)) \),

where \( p = "\text{I am running down the road}," \) \( q = "\text{I am trying to loosen my load}," \) \( M(x) = "x \text{ is on my mind}," \) \( W(x) = "x \text{ is a woman}," \) \( O(x) = "x \text{ wants to own me}," \) \( S(x) = "x \text{ wants to stone me}," \) and \( F(x) = "x \text{ says that } x \text{ is a friend of mine}" \). Also, \( J \) is the index set \( \{1,2,3,4,5,6,7\} \).

Answers:

1. The Blues Brothers.
5. Hamlet, Act 1, Scene 4.
7. “No One Is Alone,” from Into the Woods.
8. The Lord of the Rings: The Fellowship of the Ring.
12. “Turn! Turn! Turn!,” by the Byrds.